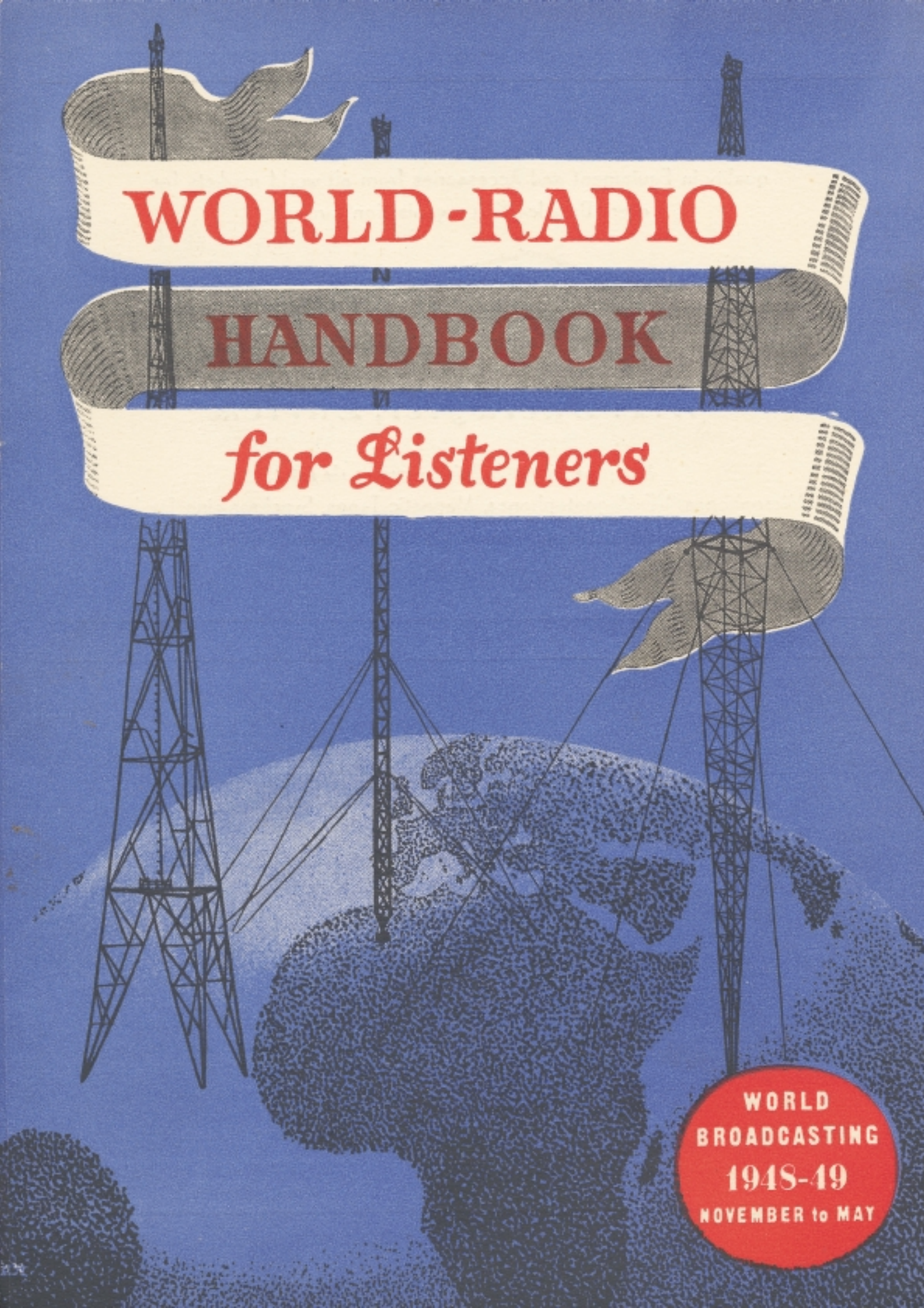
WORLD-RADIO HANDBOOK

for Listeners



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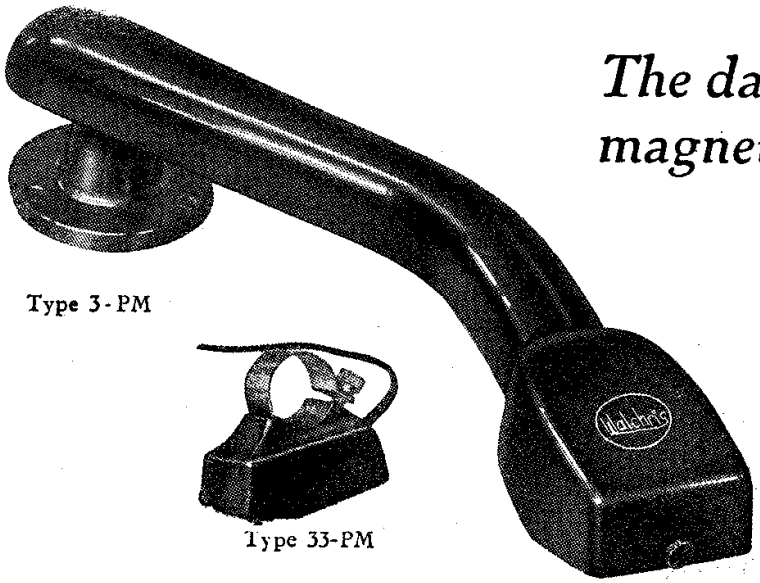

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WORLD RADIO-HANDBOOK

for Listeners

including WHO's WHO in the World Radio

Published and edited by

O. LUND JOHANSEN

With the support of DET DANSKE SELSKAB (The Danish Society)
for information ab. Denmark and cultural cooperation
with other countries

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World Radio Handbook for Listeners 1948-1949 O. Lund Johansen

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the SHORT-WAVE DEPARTMENT, RADIO HOUSE, COPENHAGEN V., DENMARK

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advertisement Voice of Denmark

PREFACE

The preface to the third edition of *World Radio Handbook for Listeners* must primarily be an appeal to all broadcasting corporations and interested listeners all over the world to assist me in making its contents as complete and exact as possible and by spreading knowledge of it.

The task of W. R. H. is to create a practical link between broadcasting stations and listeners interested in the broadcasts of other countries. Each individual broadcasting corporation is interested in as many listeners as possible listening to the broadcast for foreign countries; it is consequently interested in the service that can be provided for them by W. R. H. in this matter, and it must be in their own interest to give a helping hand in return to W. R. H. by, amongst other things, regularly furnishing the editorial office with information about activities and broadcasts, and in connexion with special transmissions or DX broadcasts or in other ways to call the attention of listeners to W. R. H. This is already done by some wireless stations, and in this connexion I owe special thanks to Mr. Edv. Startz, "The Happy Station PCJ". I thank the many broadcasting corporations which in different ways have evinced interest in W. R. H. It is hoped this may continue and be further developed, spreading to those radio corporations whose interest in the work of W. R. H. has hitherto been lacking. To these latter I would say: *By lending a helping hand to W. R. H. you help yourself and serve a good cause.*

How can the individual listener, listeners' organizations and DX clubs assist? Amongst other things by sending me a report now and then about their listening and your wishes and suggestions for the improvement of its contents, and by telling your friends and acquaintances of the increased profit obtained in listening as a result of W. R. H. W. R. H. is happy to observe an ever-growing contact with listeners in countries all over the world. This entails an extensive correspondence, but almost every letter is a pleasure and thus worth the work. I would therefore say to every purchaser of W. R. H. wherever he be: *Send me your criticism and wishes and, perhaps, a report now and again.*

My thanks are due to UNESCO for the editorial help it has afforded me in sending the valuable reports on broadcasting in Europe and Latin America drawn up by "Divisions des Besoins Techniques l'Unesco", and also to the international broadcasting organizations: l'Union Internationale de Radiodiffusion, Geneva, and the International Broadcasting Organisation, Brussels.

I thank Det Danske Selskab (The Danish Society) and many of the Danish official representatives abroad for the valuable help, which has been afforded me in various ways.

O. Lund Johansen.

1749 - 3. JANUARY - 1949

The readers' trust

during

200 YEARS

has made

Berlingske Tidende

DENMARK'S LEADING PAPER

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32, Avenue Albert Lancaster
Brussels - Belgium.
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Follow the BBC shortwave broadcasts with London Calling! Each week it publishes advanced details of programmes, wavelengths and coverage of the General Overseas Service in English and of the special Regional Services in English and other languages. London Calling also contains illustrated articles on life in Britain and abroad. Annual subscription (post free) 10/- sterling, or the equivalent in local currency.

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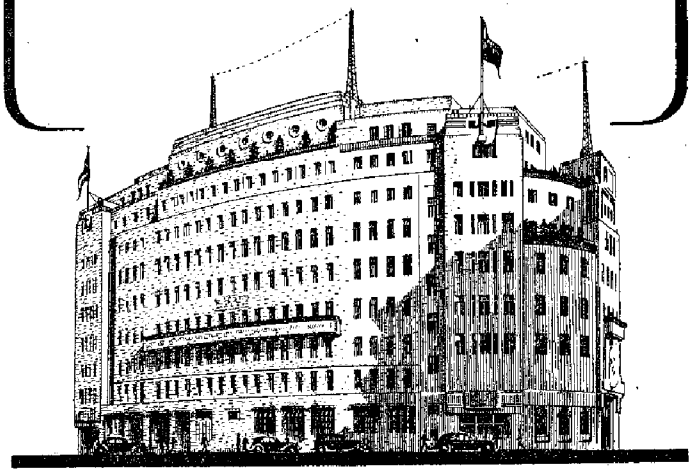
You will enjoy reading this journal which publishes each week the best of the talks broadcast by the BBC. These talks are given by experts and cover a wide range of subjects including world problems, history, philosophy, art, music, literature and drama. Annual subscription (post free) 17s. 6d. sterling, or the equivalent in local currency.

Write for a specimen copy of London Calling and The Listener, mentioning this advertisement, to BBC Publications, Scarle Road, Wembley, Middlesex.



INTRODUCTION

The practical information given in the following section concerning broadcasting in each individual country includes:

The difference in time between normal clock time in the country in question and Greenwich Mean Time and whether the country in question has introduced summer time. *All times listed in the surveys are Greenwich Mean Time (G. M. T.).*

The address of the broadcasting companies in question.

The names and titles of the leading personalities in each company.

The stations belonging to the company in question, giving their call-signs for short wave stations, frequencies, and corresponding wavelengths, together with the power expressed in kilowatts. For Europe, North Africa and the Near East all broadcasting stations are shown, and for other countries all short wave broadcasting stations.

Each short wave station has its own identification call-sign consisting of 3—5 letters or combinations of letters and figures, of which the first, or the two first, show the nationality. Some short wave stations, for example, the American, employ the identification call signs when announcing.

Long and medium wave stations are divided into *Main stations* which are so powerful that they can generally be heard in the whole area of the country in question, and from which most of the broadcasting emanates, *Regional stations* which can be heard within a certain area of the country in question, and whose broadcasts consist partly of retransmissions of the programmes of the main stations and partly their own programmes, and finally, *Relay stations* which solely retransmit the programmes of main stations. The relay stations are the weakest, and are local stations which can only be heard within a small area.

Most of the short wave stations use dirigible antennæ, that it to say, broadcasts are directed towards particular areas, and these are therefore termed the various services: European service, Near Eastern, Middle Eastern, Far Eastern, Pacific, Latin-America, Caribbean service etc. The language and the frequency employed varies in accordance with the area to which the broadcast is directed.

Daily Programmes. Under this heading will be found information concerning the total broadcasting hours, *expressed in Greenwich Mean Time,* of the different frequencies employed during broadcasting hours, and a survey of the day's broadcasting.

Frequency and wavelength.

Frequency or wavelength is divided into following groups:

Long waves with frequencies from 133 kc/s (1961 metres) to 500 kc/s (600 metres).

Medium waves with frequencies from 500 kc/s (600 metres) to 3000 kc/s (100 metres).

Short waves with frequencies from 3000 kc/s (100 metres) to 30000 kc/s (10 metres).

Megacycles, kilocycles, metres are three different terms for the wave length. 1 megacycle is equal to 1000 kilocycles. Megacycles are changed to kilocycles by multiplying megacycles by 1000. Kilocycles are changed to megacycles by dividing by 1000. Kilocycles are changed to metres by dividing kilocycles into 300000. Metres are changed to kilocycles by dividing metres into 300000. Metres are changed to megacycles by dividing metres into 300. — Kc/s means kilocycles per second = 1000 oscillations per second.

Short waves are divided into the following metre bands (m. b.):

49 metre band — 41 metre band — 31 metre band — 25 metre band — 19 metre band — 16 metre band — 13 metre band and 11 metre band.

Many short wave stations lie outside these bands. The 60 and 80 metre bands are used for local broadcasting, i. e. for reception over relatively short distances like, for example, South and Central American stations and stations in Central Africa.

In order at all times to obtain the best possible reception of shortwave broadcasts, stations change the frequency used at different times of the day and night; the season of the year is also a factor when settling the size of a frequency.

How to tune in to your favourite shortwave station.

Practice is required to adjust the receiver correctly to a shortwave station. A movement of only a hair's breadth may give the correct adjustment. When a shortwave station is found it must be finely adjusted by gently turning the scale button backwards and forwards, whilst at the same time screwing up the volume control so much that the station in question can be identified. If the scale button is turned too quickly a weak station may be missed.

Reception conditions for shortwaves can be very capricious. After listening to a far-distant station for a short time it can disappear entirely (fades), and does not come again immediately.

The same broadcast is often sent simultaneously on several wavelengths. Should you have adjusted the receiver to the station to which you wish to listen and reception is unsatisfactory, try the other wavelengths used by the station during the period in question.

How to identify a shortwave station.

Should you chance to hit upon a station which you wish to listen to and identify, do as follows: Read the approximate frequency, which is given in megacycles, kilocycles or metres. Look in the frequency table for the stations lying in the vicinity of the frequency. When you have limited the station to one or two possibilities and observed the programme and language, check these against the programme surveys.

QSL Card.

As shown in the survey of the various broadcasting countries, many of the stations are interested in receiving reports from listeners concerning their broadcasts. Stations acknowledge these by sending listeners a QSL card. or a letter. In the case of most stations it is stated if reports are answered by a QSL card.

Many shortwave listeners make a hobby of collecting these QSL cards. Such reports can in most cases be drafted in English, but to the South and Central American countries preferably in Spanish. The report should contain information concerning wave length, date, time, programme listened to, intelligibility, strength and whether there was any fading e. g. variable strengths (QSB), interference from another station (QRM) and static e. g. atmospheric interference (QRN). If it was an amateur station the report must contain the call letters of the station working. — Give details of your location, type of receiver and aerial. If postage is wanted enclose with the report an International Reply Coupon, obtainable at most post offices. *Greenwich Mean Time (G. M. T.) is employed in giving the time.* — The complete address for each station will be found under the various surveys of the countries broadcasting.

The following descriptions are used:

Intelligibility.	Strength.	Interference:
QRK1 — unintelligible	QSA1 — unreadable	QRM — interference from another station
QRK2 — partly unintelligible	QSA2 — weak	QRN — atmospheric interference (static)
QRK3 — intelligible with difficulty	QSA3 — fairly good	QSB — variable strengths (fading)
QRK4 — quite intelligible	QSA4 — good	
QRK5 — easily intelligible	QSA5 — very good	

↑From the Swiss shortwave broadcasts. Announcer Barbara Zweiacker presents "Tony Bell and His Orchestra". You also hear her presents "Among us Girls".

←Programme Director for P. C. J. (Holland) Mr. G. Sluizer during a broadcast from Radio Nederland PCJ Wereldomroep

The chief of the French National Orchestra Mr. Ch. Munch.→

↓ Miss Bodil Ciccarella, daughter of the Danish author Børge Janssen, is the leader of the Danish and Norwegian broadcasts on short-wave from Rome. Her voice is heard every evening at 20.15 G. M. T. exc. Thursday and Sunday on 25.40 m.

Robert Gladwell, Announcer, reading the news in the B. B. C. Overseas Service from London.

Switzerland Swiss Shortwave Broadcast Barbara Zweiacker PJC Holland G. Sluizer Radio Nederland Wereldomroep Ch. Munch French National Orchestra Bodil Ciccarella Berge Janssen RAI Italy Rome Robert Gladwell BBC London

L'UNION INTERNATIONALE DE RADIODIFFUSION (U. I. R.).

Address: 37 Quai Wilson Geneve.

Leading Personalities: Board of Directors: President G. Conus (Switzerland). Vice-presidents: J. Bomholt (Denmark), L. O'Broin (Eire), G. Spataro (Italy), N. V. Ilkin (Turkey).

Membres actifs: Austria, Denmark, Greece, Norway, Eire, Italy, Portugal, Swiss, Spain, Sweden and Turkey.

Membre à titre spécial: Cité du Vatican.

"Membres associês": South African Broadcasting Corporation, Johannesburg — Direction générale des Postes et des Telegraphes Buenos Aires Argentina — Amalgamated Wireless (Australasia). Ltd. Sydney — Burma — The Central Broadcasting Administration Nanking — The National. Broadcasting Company Newyork — Iran. —

INTERNATIONAL BROADCASTING ORGANIZATION (I. B. O.).

Address: 32 Avenue Albert Lancaster, Brussels.

Leading Personalities: Board of Directors: Chairman: Shukry Abaza Bey (Egyptian Broadcasting). Vice-Chairmans: W. Billig (Polskie Radio) and J. Kuypers (I. N. R., Belgium). Delegate to the Administrative Office: Directors: K. Stahl. (Czeckoslovakian Broadcasting.) M. Arbouzov (Radio Committee U. R. S. S.), Professor P. S. Gerbrandy (N. R. U. Netherlands). J. Meyer (Radiodiffusion francaise). — Deputy Directors: J. B. Broeksz (Netherlands), L. Daumard (France), Th. Fleischman (Belgium), J. Panski (Poland), Dr. V. Strnad (Czekoslovakia), A. Chtchetinine (U. S. S. R.). Anis el Bardaei (Egyptian Broadcasting).

Secretary General: Leo Wallenborn.

EUROPE

ALBANIA

Normal Clock Time — G. M. T. plus 1 hour.

Address: Direction Centrale de la Radiodiffusion d'Albanie, Rue Conference de Peza 3, Tirana.

Leading Personalities: Director General: M. Petro Kito.

Stations:

Tirana	1500 kc/s	200 m	1 kW
Korca	6257 kc/s	47.95 m	3 kW
Tirana	7850 kc/s	38.22 m	3 kW
Shkodra	8216 kc/s	36.5 m	3 kW

Daily Programmes in Albanese on 200 m: 05.40-07.45 and 12.00-22.00.

Daily News in different languages on 38.22 m.

18.00 News in Russian
18.15 News in Roumanian
18.30 News in Italian
18.45 News in French
19.00 News in Albanian
19.15 News in Greek
19.30 News in Bulgarian
19.45 News in Turkish
20.00 News in Serbo-Croat
20.15 News in English
20.30 Progr. for Albanians abroad
21.30 Close down

Interval Signal: A raising and falling cadence of 12 musical notes.

Message to Listeners: Reports answered by letter.

ANDORRA

Normal Clock Time — G. M. T. plus 1 hour.

Address: Emisiones de Radio-Andorra, Roc de las Anelletes, Andorra la Vieja, Principado de Andorra.

Leading Personalities: Chairman: S. D. Vila Llobet. Directors: Don José Jara Peralta and Don Mavricio Perrot. Technical Director: Don Lucien Killmayer. Administrative Secretary: Don Juan Levrat.

Stations: Radio Andorra.

704 kc/s	426.1 m	60 kW
5980 kc/s	50.16 m	25 kW
9330 kc/s	32.15 m	25 kW inactive

Daily Programmes: from 11.30-14.00, 18.00-24.00.

Special Programmes on 50.16 m.

22.15 Belgian Broadcast
22.25 Concert of Listeners
22.30 Swiss Broadcast
24.00 "Ou allons nous ce soir"

Announcement in Spanish and French: In Spanish: "Aqui Radio-Andorra" (Woman voice) — In French: "Ici Radio-Andorra" (Man voice).

Interval-Signal: Gong.

Message to Listeners: Reports are welcomed. Special concerts grouping the pieces requested every day by the listeners.

AUSTRIA

Normal Clock Time — G. M. T. plus 1 hour.

Stations:

Vorarlberg-Dornbirn	West	519 kc/s	578 m	1,2 kW
Innsbruch	West	519 kc/s	578 m	2 kW
Klagenfurt	BFN	565 kc/s	531 m	0,7 kW
Graz	BFN	565 kc/s	531 m	0,7 kW
Vienna I	RAVAG	592 kc/s	507 m	10 kW
Linz KOFA	Blue Danube	629 kc/s	477 m	1 kW
Vienna	BFN	868 kc/s	345 m	0,8 kW
Graz I	Alpenland	886 kc/s	339 m	100 kW
Vienna WOFA	Blue Danube	1068 kc/s	280 m	1 kW
Salzburg KZCA	Blue Danube	1104 kc/s	271 m	1,3 kW
Salzburg	Rot-Weiss-Rot	1267 kc/s	237 m	5 kW
Graz	Alpenland	1285 kc/s	233 m	15 kW
Klagenfurt	Alpenland	1285 kc/s	233 m	15 kW
Vienna	Alpenland	1285 kc/s	233 m	6 kW
Linz	Rot-Weiss-Rot	1294 kc/s	232 m	15 kW
Vienna II	RAVAG	1312 kc/s	229 m	10 kW
Vienna	Rot-Weiss-Rot	1429 kc/s	210 m	15 kW
Vorarlberg	West	6000 kc/s	50.00 m	0,5 kW
Vienna I	RAVAG	6155 kc/s	48.74 m	0,3 kW
Vienna II	RAVAG	7175 kc/s	41.80 m	0,2 kW
Salzburg	Blue-Danube	7220 kc/s	41.55 m	0,4 kW
Vienna	Rot-Weiss-Rot	9563 kc/s	31.37 m	0,2 kW
Vienna III	RAVAG	9664 kc/s	31.04 m	0,2 kW
Vienna IV	RAVAG	11785 kc/s	25.45 m	0,2 kW

American Zone

THE BLUE DANUBE NETWORK

Address: HQ USFA. APO 777, US Army, Austria.

Leading Personalities: Chief of Blue Danube Network: Captajn Robert Cranston. Chief of Operations BDN and Station Manager WOFA: Mr. Bill Willey. Chief Engi-

neer BDN: Mr. Richard Wilkin. News Chief and Publicity BDN: Mr. Thurston Macauley. Station Manager KZCA: T/3 Mr. Robert Craff. Station Manager KOFA: Mr. Joseph P. Welsh.

Stations:

Salzburg KZCA	1104 kc/s	271 m	1 kW
Vienna WOFA	1068 kc/s	281 m	1 kW
Linz KOFA	629 kc/s	477 m	1 kW
Salzburg	7220 kc/s	41 m	0,4 kW

Daily Programmes: *Weekdays:* 05.00-23.00 *Sundays:* 06.00-23.00.

Announcement: Network cue at 30 minute intervals: "This is BDN, the Blue Danube Network". Each Station makes its own station break after each show: "WOFA Vienna (or: KOFA Linz, or: KZCA Salzburg)".

Message to Listeners: The Blue Danute Network serves American military and civilian personnel stationed in Austria, bringing them the best in radio, through the Armed Forces Radio Service, plus its own original programs and productions. Letters are welcomed from European listeners.

SENDERGRUPPE ROT-WEISS-ROT

Address: Sendergruppe Rot-Weiss-Rot, Hofstallgasse 5, Salzburg. Promenade 23, Linz, and Seidengasse 13, Wien VII.

Leading Personalities: Station-Coordinator for Vienna: Mr. Josef R. Sills. Programme-Director for Salzburg: Dr. Geza Rech. Programme-Director for Linz: Mr. Andreas Reischek. Chief-Engineer: Dr. Rudolf Stamminger. Music Director: Mr. Emmerich Zillner.

Stations:

Salzburg	1267 kc/s	236.8 m	5 kW
Linz	1294 kc/s	231.8 m	15 kW
Vienna	1429 kc/s	210.0 m	15 kW
Vienna	9563 kc/s	31.37 m	1 kW

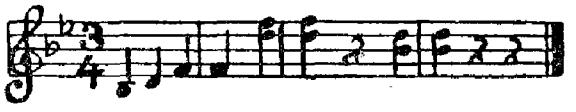
Daily Programmes:
Weekdays: 04.57-23.00.
Sundays: 05.57-23.00.

Weekdays:	*Sundays:*
05.00 News, Music	06.00 News
06.00 News	07.00 News, Music
06.15 News in Czech	07.45 Protestant Service
07.30 News in Croat	08.00 Concert
07.45 Music	08.45 Catholic Service
08.00 From last nights program	10.00 Music
	10.45 Political Round-up
11.30 News, Music	11.00 Music
12.30 Press Review	11.30 News
13.30 Music	15.00 Music
14.00 News, Music	15.30 Volksmusic
16.45 America calls Austria	16.45 America calls Austria
16.45 This is America	17.00 Music
17.00 News, Music	17.45 This is America
18.00 Music	18.00 Music
18.45 News	18.45 Sports and News
21.00 News, Music	21.00 News, Organ Music
21.30 America calls Austria	21.30 America calls Austria
21.45 Music	21.45 Music
22.15 News in Hungarian	22.15 News in Hungarian
22.55 News	22.55 News

Highlights of Programme:
Thursdays: "Stimmen der Meister" 11.50, "Rot-Weiss-Rot Theater" 19.15, Concert.
Saturdays: "Neues Musikschaffen" 13.30, "Stunde den Allierten" 17.00.

Announcement: "Hier ist die Sendergruppe Rot-Weiss-Rot", Wien auf Welle 210 m, Salzburg auf Welle 236.8 m, Linz 231.8 m und der Kurzwellensender auf 31.37 m."

Interval-Signal: The first four movements of the "Blue-Danube" by Johann Strauss.



Message to Listeners: All letters from listeners are answered by letter.

British Zone

SENDERGRUPPE ALPENLAND

Address: Sendergruppe Alpenland, Funkhaus Graz, Zuserthalgasse 14 a, Graz.

Leading Personalities: Programme Director: Dr. Harald Scheibel. Chief Producer: Mr. Otto Hofmann-Wellenhof. Chief Engineer: Ing. Kurt Weinschenk.

Stations:

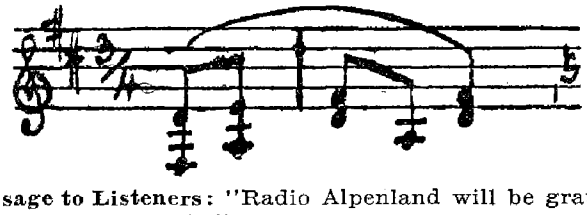
Alpenland	886 kc/s	338.6 m	100 kW
Graz	1285 kc/s	233.4 m	15 kW
Klagenfurt	1285 kc/s	233.4 m	15 kW
Vienna	1285 kc/s	233.4 m	15 kW

Daily Programmes:
Weekdays: 04.57-07.15, 09.05-13.00 and 15.00-23.00.
Sundays: 05.57-23.00.

Weekdays:	
05.00 News, Music	08.00 News
05.55 Morning Prayer	08.45 "Wie denken an . . ."
06.00 News, Progr. Preview, Music	09.00 High Mass.
	11.30 News
07.00 News, Music	13.02 Music
11.30 News, Progr. Preview	15.30 Volksmusic aus Osterreich
16.00 News	16.00 News
17.00 Music	18.15 "Gedanken zur Zeit"
19.00 News and Sport	18.30 Progr. Preview for the next week
21.00 News, Progr. Preview	
22.55 News	19.00 News and Sport
	21.00 News, Progr. Preview
Sundays:	22.15 Dance Music
06.00 News, Progr. Preview	22.45 Progr. Preview for the next week
06.30 Music	
07.00 News	22.55 News

Announcement: "Hier ist die Sendergruppe Alpenland".

Interval-Signal: Alpenland and Graz. The first sounds of the Styrian song: "Hoch vom Dachstein an":



Message to Listeners: "Radio Alpenland will be grateful for reception reports."

BRITISH FORCES NETWORK

Address: C 13 Army Broadcasting Station, BTA Vienna.

Leading Personalities: Commander: Capt. R. Angove, Technical Officer: S/Ldr A. F. Thorpe, Programme Controller: Mr. E. D. King.

Stations:

Klagenfurt	565 kc/s	531 m	0,75 kW
Graz	565 kc/s	531 m	0,75 kW
Vienna	868 kc/s	345 m	0,8 kW

Daily Programmes:
Weekdays: 05.58-08.00, 09.28-13.00 and 14.55-22.00
Sundays: 06.43-22.00

Announcement: Opening melody: "Rule Britannia". Closing melody: "The King". Text: "Good morning everyone. This is the British Forces Network, Austria, operated by the Forces Broadcasting Service from Klagenfurt, Graz and Vienna.

French Zone

SENDERGRUPPE WEST

Address: Sender *Vorarlberg,* Dornbirn, Rathausplatz 1. Sender *Innsbruck,* Innsbruck, Landhaus, Neubau.

Leading Personalities:
Vorarlberg: Bundesrat Eugen Leissing and Director of Programmes: Mr. Ludwig Standl.
Innsbruck: Director of Programmes: Dr. Arthur v. Schuschnigg. Director of Tecnic: Dr. Hans Bucek.

Stations:

Radio Vorarlberg-Dornbirn	519 kc/s	578 m	6 kW
Radio Innsbruck	519 kc/s	578 m	1,2 kW
Radio Vorarlberg S. W.	6000 kc/s	50.00 m	0,5 kW

Daily Programmes: *Weekdays:* 05.00-07.30, 10.00-14.00 and 15.00-23.00. *Saturdays:* 05.00-07.30 and 10.00-23.00. *Sundays:* 06.00-23.00

Weekdays:
05.00 News, Music
06.00 News, Preview, Music
07.00 News in French (from Paris)
10.00 Music
11.45 News
12.00 News in French (from Paris)
12.25 "Musikalische Wirtschaftsstunde" (Sat.: "Hörergrüsse")
13.00 Music
15.00 Music
15.45 Progr. Preview, Music
15.50 Music (17.20 Program from Paris Tuesd.)
19.00 News
21.00 News, Progr. Preview, Music
22.00 Dance Music

Sundays:
06.00 News, Progr. Preview, Music
07.00 News in French (from Paris)
07.20 Music
08.30 Catholic Service
10.00 Symphony Concert
11.45 News
12.00 News in French (from Paris)
14.00 Music
15.00 New Austrian Music
15.30 "Volksmusic aus Österreich"
16.00 Dance Music
17.45 Music
18.45 From Tyrol
19.00 News
21.00 News, Progr. Preview, Music

Highlights of Programmes:
Symphony Concert: Wedn. at 17.45
"Stunde der Allierten": Saturdays at 17.00
Radio Theatre: Thursdays at 19.15-21.00
Wir lernen Volkslieder: Saturdays at 14.45

Announcement: "Oesterreichische Sendergruppe West, Radio Innsbruck, Radio Vorarlberg (Studio Innsbruck-Studio Dornbirn)".

Interval-Signal: *Innsbruck:* Harfenspiel "Mein schönes Innsbruck am grünen Inn".
Closing with Andreas Hofer Lied.
Vorarlberg-Dornbirn: "Segenwolle Ahnenscholle, schönes Land am jungen Rhein".

U. S. S. R. Zone

RAVAG

Address: Ravag, Argentinierstrasse 30 A, Wien IV.

Leading Personalities: Oeffentlicher Verwalter für das österreichische Rundspruchwesen Dr. Siegmund Guggenberger. Programme Director: Prof., Dr. Rudolf Henz. Chief Engineer: Ing. Wilhelm Füchsel.

Stations:

Vienna I	592 kc/s	506.8 m	10 kW
Vienna II	1312 kc/s	228.6 m	10 kW
Vienna I	6155 kc/s	48.74 m	0,3 kW
Vienna II	7175 kc/s	41.80 m	0,25 kW
Vienna III	9664 kc/s	31.04 m	0,25 kW
Vienna IV	11785 kc/s	25.45 m	0,2 kW

DAILY PROGRAMMES from Vienna I.

On 506.8 m and 25.45 m m: *Weekdays:* 04.45-8.00 and 09.00-23.05
Sundays: 05.40-23.05
On 48.74 m: *Mondays* and *Thursdays:* 04.45-08.00, 09.00-14.00 and 15.00-23.05. *Other weekdays:* 04.45-08.00 and 09.00-23.05.
Sundays: 05.40-23.05
On 31.04 m and 41.80 m: *Weekdays:* 04.45-08.00, 09.00-c. 15.55 (Saturd. 15.00), 18.00-18.30 and 22.30-23.05.
Sundays: 05.40-08.15, 11.45-13.00 and 22.30-23.05.

Weekdays:
04.45 Music
05.00 News, Music
06.00 News, Progr. Preview, Music
07.15 Music
09.00 Music
10.20 Music (exc. Mo.)
11.45 News, Music
13.15 Request Concert
15.00 Advertising (Puff)
15.55 Progr., Preview, News
16.10 Recital (Sat.: Cabaret)
16.40 Actualities from the Sovjet Newspapers (exc Sat.)
17.00 "Stunde der Allierten" (Sat.)
17.50 Stimme zur Zeit (Sat. 18.05)
18.30 "Das Echo des Tages"
19.00 News, Weather
19.20 Music or Play (Thursday: Russian Progr.)
21.00 News, Music
21.40 Music from Moscow
23.00 News, Progr. Preview for the next day

Sundays:
05.40 Music
06.00 News, Progr. Preview
06.15 Organ. Music
06.40 Opera Concert
08.45 Catholic Service
10.20 Actualities from the Sovjet Newspapers
11.30 Orchestral Concert
11.45 News, Progr. Preview, Music
15.00 Advertising (Puff)
16.00 News
16.10 Cabaret
18.00 Music
19.00 News, Sport
19.20 Progr. in Russian
21.00 News, Sport
21.20 Advertising (Puff)
21.40 From Moscow: Dance Music
23.00 News, Progr. Preview for the next day

Highlights of Programmes:
"Wir laden ein": Saturdays at 19.20
"Radio Theatre": Tuesdays and Fridays at 19.20
"Musik am Montagabend": Mondays at 19.20
Orchestral Concert: Wednesdays at 18.45

DAILY PROGRAMMES from Vienna II.

On 228.6 m, 31.04 m and 41.80 m: *Weekdays:* 15.55(Saturdays 15.00)-22.30. *Sundays:* 08.15-22.30

Weekdays:
15.55 Progr. Preview
16.00 News, Music
17.40 Scientific News (exc. Sat.)
19.00 News
21.00 News, Music

Sundays:
08.15 Sunday Morning
08.45 Music
09.35 Music
10.30 Wiener Premierenecho
11.00 Music
13.00 Chamber Music
14.040 Request Concert
15.30 "Volksmusic aus Österreich"
16.00 News
16.10 Chess
16.35 Music
17.30 Reportage
19.00 News, Music
21.00 News, Music

Highlights of Programmes:
"Symphony Concert and Piano" or Play on Saturdays at 19.20
"Klingende österreich" on 1., 3., and 5. Sunday at 19.20
Cabaret: Wednesdays at 19.20
Programme-exchange Paris-Wien: Tuesdays 19.20-19.50 from Paris. Fridays 19.20-19.50 to Paris

EUROPEAN SERVICE on 48.74 m.
Every *Monday* and *Thursday:*
14.00-15.00 Information in Ukrainian from Kiev.

Announcement: "Hier ist Radio Wien auf ..... (Wavelengths).

Interval-Signal: Tick-tack of an alarm clock.

COMMON BROADCAST FROM ALL AUSTRIAN STATIONS
Sundays: 09.00-10.00 Religious Service, 15.00-15.30 New Austrian Music, 15.30-16.00 "Volksmusik aus österreich".
Tuesdays: Fortnightly: Opera from the Royal Opera.—
Wednesdays: 17.15-17.30 "österreich baut auf"
Saturdays: 17.00-18.00 Stunde der Allierten, 18.05-18.15 Heimkehrer helft mit, unsere Kriegsvermusster suchen.

BELGIUM

Normal Clock Time — G. M. T. + 1 hour.
Address: Institut National Belge de Radiodiffusion, Place Eugene Flagey 18, Brussels.
Leading Personalities: The President of the Conseil de Gestion: Minister of Communication: Mr. Achiel van Acker. *Flemish Dept.:* Director General: Mr. Jan Boon. Deputy Director General: Mr. Gust De Muynck*. Director of Music: Mr. P. Gollaer. Director of Spoken Word: Mr. Raymond Brulez. For Press and Information: Mr. Herman Engels. *French Dept.:* Director General: Mr. Theo Fleischmann. Asst. Director General: Mr. Roger Clausse. Director of Music: Mr. Rene Tellier. Director of Spoken Word: Mr. Frans Hoosemans. For Press and Information: Mr. André Guèry. *Overseas Dept.:* Director Mr. Franz Zoete. Technical Dept.: Director General Mr. Fernand Mortiaux. Asst. Director General: Mr. Georges Hansen.
* The Delegate of the Minister of Communications with the Belgian National Radio Institute

Stations:

French transmissions:			
Brussels I	620 kc/s	483.9 m	20 kW
Brussels IV	868 kc/s	345.6 m	10 kW
Liége	1140 kc/s	265.2 m	0,25 kW
Namur	1492 kc/s	201.10 m	0,3 kW
Hainaut	1492 kc/s	201.10 m	0,25 kW
Flemish transmissions:			
Brussels II	932 kc/s	321.9 m	20 kW
Brussels III	1285 kc/s	233.5 m	5 kW
Ghent	1465 kc/s	204.8 m	0,2 kW
Anvers	1465 kc/s	204.8 m	0,2 kW
Courtrai	1483 kc/s	202.3 m	0,2 kW
Limbourg	1483 kc/s	202.3 m	0,2 kW
Shortwave stations:			
Ruyselede	17845 kc/s	16.85 m	5 kW
Ruyselede	21450 kc/s	13.98 m	5 kW
Leopoldville	(See Belgian Congo, Africa)		

Daily Programmes in French from Brussels I
Weekdays from 05.30-08.30, 11.00-14.30, 16.00-22.00 (Sat. 23.00).
Sundays from 05.30-23.00.

05.30 Music	06.00 News
05.45 Exercise	06.10 Music
06.45 Exercise	17.00 For Troops (Weekdays)
07.00 News, Music	17.00 For the Youth (Sund.)
08.10 Symphonic Records	17.30 Music (Weekd.)
11.05 Music	18.45 News
12.00 News	19.00 Music
12.30 Records (Weekdays)	21.00 News
13.00 Request Concert (Sund.)	21.15 Music or Various
16.10 Music (Weekdays)	21.55 News
16.30 For Troops (Sundays)	22.00 Music (Sat. and Sun.)
	22.55 News (Sat. and Sun)

Hainault from 11.00-13.00 (Sund. 13.15), 17.10-22.00 (Relay and Regional)

Liége from 11.00-1300, 17.10 (Sund. 17.00)-22.00 (Relay and Regional)

Namur from 09.00-10.55, 15.00-17.00 (Relay and Regional)

Brussels IV: 05.30-22.00 (Relay and Regional)
Highlights of Programmes: Symphonic Concert: Wednesday at 19.00. Radio Play: Thursday at 19.00. "Notre Cabaret": Monday at 19.00. Opera: Tuesday at 20.00.

Daily Programmes in Flemish from Brussel II:
Weekdays from 05.30-09.00, 11.00-14.00, 16.00-22.00
Saturdays from 5.30-9.00, 11.00-23.00
Sundays from 05.30-23.00

05.30 Music and Exercise	17.30 Religious Service (Sun.)
06.00 News (Weekdays)	18.00 News. Press Review
07.00 News	18.30 Non-stop Music (Sund.)
08.00 News	19.00 Music (Weekd.)
08.05 Music	20.00 Topical (Weekd.)
10.45 Radio Journal (Sun.)	20.30 Topical (Sund.)
11.00 Music	21.00 News
12.00 News, Music	21.15 Music
12.15 Music	21.50 News (Weekd.)
16.00 Music (Sund.)	22.00 News (Sun.)
16.05 News, Commentary (Weekd.)	
17.30 For Troops (Weekd.)	

Brussels III: 09.00-22.00 (Sun. 23.00) Relays from Regionals and Brussels I.
Ghent/Anvers: From 09.00-22.00 (Relay and Regional)
Courtrai/Limburg: 05.45-21.15.

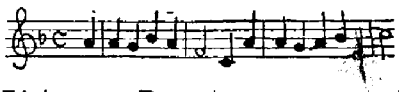
Highlights of Programmes: Symphonic Concert: Friday at 19.30. — Chamber Music or Choir: Monday at 19.00.

Daily Programmes *on shortwave from Ruyselede:*
Programmes and information to be monitored for use on shortwave by OTC and OTM.
On 13.98 m from 13.00-14.30.
On 16.85 m from 16.00-17.00 and from 21.00-22.00

Announcement in French: "Ici Radiodiffusion Nationale Belge". In Flemish: "Belgische Nationale Radio-Omroep". — For Ruyselede: "Allo Leopoldville — Ici Brussels, Service Mondial de l'. I. N. R.".

Interval-Signal for Brussels I: Extract from Grétry's famous melody "Ou peut-on etre mieux".

For Brussels II: The first movement of "Belaardlied" (Extract of Rubens' cantata of Peter Benoit).



Message to Listeners: Reports are answered by letter.

BULGARIA

Normal Clock Time — G. M. T. plus 2 hours.

Address: Direction de Radiodiffusion, Radio Sofia, Sofia.

Leading Personalities: Director of Bulgarian Broadcasting: Mr. Carlo Lukanov. Director of Programmes: Mr. Tchudomir Petrov. Technical Director: Mr. Gantcho Pushkarov. Chief of Programme and Liaison Dpts.: Mr. Milko Angelov. Chief of Musical Dpt.: Mr. Naydem Naydenov.

Stations:

Radio Sofia I	767 kc/s	391.0 m	15 kW
Radio Sofia II	850kc/s	352.9 m	100 kW
Radio Varna	1276 kc/s	235.1 m	2 kW
Stara Zagora	1402 kc/s	214.0 m	2 kW

Shortwave Stations:

7670 kc/s	39.11 m	5 kW
9310 kc/s	32.22 m	5 kW
9350 kc/s	32.09 m	5 kW
9398 kc/s	31.92 m	5 kW

Daily Programmes:
Sofia I: National
Weekdays: 03.55-07,30, 09.55-13.30 and 15.55-20.50.
Sundays from 04.25-08.30, 09.55-13.30, 15.10-20.50.
Daily also on 31.92 m from 09.55-11.30.

News: 05.00, 11.30, 18.30, 20.30. *Program Preview:* 03.55, 07.15, 09.55, 15.55. *Press Survey:* 05.00, 10.00.

Daily news and various features of Bulgarian life from Bulgaria in foreign languages:

On 31.92 m
18.50-19.00 Esperanto (on Tuesdays and Fridays).

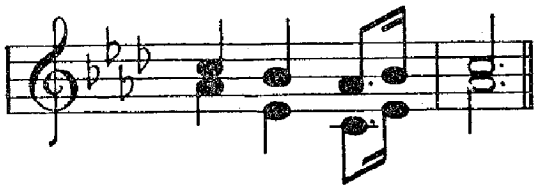
19.00 Russian	19.40 Greek	20.20 French
19.10 Turkish	19.50 Serbo-Croat	20.30 English
19.20 Polish	20.00 Albanian	21.40 French
19.30 Rumanian	20.10 Czech.	21.50 English

On 391 m

15.45 (Sund.) Turkish	16.10 (Tuesd., Frid.) Greek
16.00 (Tuesd., Frid.) Serbe-Croat	20.50 Turkish
	21.00 Russian
16.00 (other Weekd.) Turkish	21.10 Polish
16.10 (Mond., Thursd.) Rumanian	21.20 Serbo-Croat
	21.30 Czech.

Announcement: *Opening:* A Bulgarian march and "Govori Sofia, Govori Sofia." In *French:* "C'est Sofia qui parle." In *English:* "This is Radio Sofia calling in the Anglo-American Service of the Bulgarian Broadcasting System."

Interval-Signal: The first notes of a popular song.



Message to Listeners: "We request all listeners to send us reports on the reception of our transmissions. We would appreciate greatly comments, suggestions and criticism. Your reports will be duly acknowledged with a short message in our broadcasts, our QSL card and a letter."

CZECHOSLOVAKIA

Normal Clock Time — G. M. T. plus 1 hour.

Address: Czechoslovensky rozhlas, Stalinova 12, Praha XII.

Leading Personalities: Director General: Mr. Kazimír Stahl. Director of Administration: Dr. Vojtech Strnad. Director of Programmes: Dr. Mirko Ocadlik. Technical Director: Ing. Ladislav Janík.

Stations:

Prague	155 kc/s	1935 m	10 kW
Banská Bystrica	392 kc/s	765.3 m	25 kW
Plzen	514 kc/s	583.7 m	15 kW
Prague I (Liblice)	638 kc/s	470.2 m	120 kW
Komarov	922 kc/s	325,4 m	20 kW
Brno I (Morava)	922 kc/s	325.4 m	100 kW
Bratislava	1004 kc/s	298.8 m	50 kW
Brno II	1063 kc/s	282.2 m	1,5 kW
Prague II (Melnik)	1113 kc/s	269.5 m	60 kW
Ostrava	1158 kc/s	259.1 m	11 kW
Tatry	1172 kc/s	256 m	2 kW
Kosice	1204 kc/s	249.2 m	100 kW
Jihlava	1348 kc/s	222.6 m	5 kW
Ceske Budejovice	1366 kc/s	219,6 m	5 kW
Kosice-mesto	1454 kc/s	206 m	2 kW

Shortwave Stations:

OLR 2A	6010 kc/s	49.52 m
OLR 2B	6030 kc/s	49.75 m
OLR 2C	6115 kc/s	49.06 m
OLR 2D	6170 kc/s	48.62 m
OLR 3B	9504 kc/s	31.57 m
OLR 3A	9550 kc/s	31.41 m
OLR 3C	9670 kc/s	31.02 m
OLR 4B	11760 kc/s	25.51 m
OLR 4A	11840 kc/s	25.34 m
OLR 4C	11875 kc/s	25.26 m
OLR 4B	11900 kc/s	25.21 m
OLR 5C	15160 kc/s	19.79 m
OLR 5A	15230 kc/s	19.70 m
OLR 5B	15320 kc/s	19.58 m
OLR 6A	17830 kc/s	16.83 m
OLR 7A	21450 kc/s	13.99 m
OLR 7B	21565 kc/s	13.91 m
OLR 7C	21640 kc/s	13.86 m

Daily Programmes from Prague I:
On Medium-Wave:

Weekdays: 04.00-07.25, 08.40-13.20 and 14.30-23.00.
Saturdays: 04.00-07.25 and 08.40-23.00
Sundays: 05.00-23.00.

On Long-Wave:
Weekdays: 04.00-07.25 and 15.30-16.25.
Sundays: 05.00-16.25.

Weekdays:	22.00 Classical Music
04.00 Music, News	
04.20 Light Music from Poland	*Sundays:*
	05.00 Music
05.00 Home Press Review	05.55 Prog. Preview, Music
05.20 Light Music	06.45 News
06.00 Foreign News	07.15 Light Music
06.15 Progr. Preview, Music	08.00 For the Troops
11.30 News	08.30 Music
18.00 News	11.00 Light Progr.
21.30 News	12.00 News
21.50 Esperanto Observer (Mond. and Thursd.)	21.30 News
	22.00 Classical Music

Daily Programmes from Prague II:
Weekdays: 04.00-07.00, 09.00-14.30 and 16.30-22.30.
Saturdays: 04.00-07.00 and 09.00-22.30.
Sundays: 05.00-23.00.

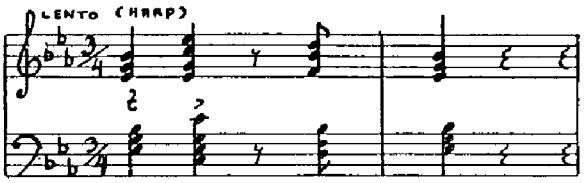
Weekdays:
04.20 Light Music
04.50 Records
06.15 Progr. Preview, Music
17.10 Cultural Observer
Sundays:
07.00 Music
07.15 Religious Music
07.45 Light Music
13.00 Women's Sunday Party
13.30 Light Progr.
18.00 News
21.50 Records

Daily Programmes from Brno I
From 04.00-07.20, 08.40-13.00, 14.30-22.30.
Daily Programmes from Ostrava
From 04.00-07.20, 08.40-13.00, 14.30-22.30.
Daily Programmes from Plzen
From 04.00-07.20, 08.40-13.00, 14.00-21.50.

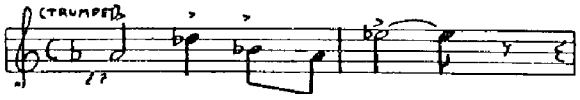
DAILY PROGRAMMES ON SHORT WAVES
From 05.00-05.20 on Weekdays. Home News 6010 kc/s 49.92 m.
From 09.00-09.15 on Sundays. Home News 11840 kc/s 25.34 m.
From 10.00-10.30 on Weekdays. News for Legations 11840 kc/s 25.34 m.
From 14.50-15.20 on Weekdays. News for Legations 15320 kc/s 19.58 m.
From 15.25-18.10 Daily. Foreign Languages 11760 kc/s 25.51 m.
From 18.15-22.00 Daily. Foreign Languages 9550 kc/s 37.41 m.
From 23.50-01.00 Daily (in Czech, Slovak and English). Programme for North America 11760 kc/s 25.51 m.

News in Foreign Languages
On 11760 kc/s 25.51 m
15.15 (Tuesd., Thursd. and Saturd.)
15.30 Esperanto
15.45 Lusitanian
16.00 Russian
16.15 Bulgarian
16.30 Serbian, Croatian
16.45 Polish
17.00 German (for Austria)
17.15 Hungarian
17.30 Rumanian
17.45 English
18.00 Russian
On 9550 kc/s 31.41 m
18.15 Bulgarian
18.30 Spanish
18.45 Polish
19.00 German
19.15 French
19.30 Serbian, Croatian
19.45 English
20.00 Russian
20.15 Italian
20.30 Spanish
20.45 Scandinavian
21.00 Esperanto
21.15 French
21.30 Spanish
21.45 English

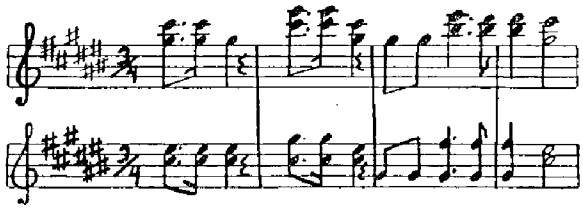
Announcement: "Announcements are made in the language of the broadcast. In English on Shortwave: "Good evening everybody. This is the Voice of Czechoslovakia. Prague calling English speaking friends everywhere". At the middle of the broadcast: "This is Prague calling, you are listening to our quarter hour programme in English, which is broadcast every day at this time."
Interval-Signal: *Praha I:* The beginning of the symphony poem "Vysehrad" by Smetana, played by harp.



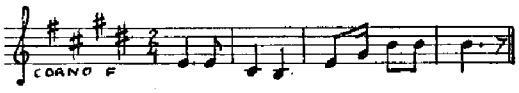
Praha II: Fanfare of the march. "The new life" by Josef Suk, played by trumpet.



Bratislava: Fanfare of a march (Pochod), by Jan Cikker, played by three trumpets.
Brno I: The folk song: "Moravo, Moravo", played by a carillon.



Shortwave-stations:



Message to listeners: "All letters sent to us from our listeners at home and abroad receive careful consideration and all reception reports are duly noted. Verification cards are sent to all whose reports have been found correct."

DENMARK

Normal Clock Time — G. M. T. plus 1 hour.

Address: The Danish State Radio, Radiohuset, Rosenørnsalle 22, Copenhagen.

Leading Personalities: Director: Mr. F. E. Jensen, Chief of Administration: Mr. A. C. Nielsen, Chief of Music Department: Mr. Peder Gram, Chief of Talks Dept.: Mr. K. B. Andersen. Chief of Literary Dept.: Mr. Hans Werner, Chief of Reportage Dept.: Mr. Aksel Dahlerup, Chief of Information Dept.: Mr. Paul Berg. Chief of News Dept.: Mr. N. Grunnet. Chief of Short Wave Dept.: Mr. Jens Rosenkjær.

Stations:

Kalundborg		240 kc/s	1250	m	60 kW
Kalundborg (experimental)		541 kc/s	554	m	4 kW
Copenhagen		1176 kc/s	255	m	30 kW
Herstedvester	OZF	9520 kc/s	31.51	m	50 kW
Herstedvester	OZH2	15165 kc/s	19.78	m	50 kW

DAILY PROGRAMMES ON LONG- AND MEDIUM-WAVES
Weekdays: 05.15-22.30. *Sundays:* 07.00-22.30
(From 17.45-22.30 also on 31.51 m).

05.15 News
05.50 Ship Positions
06.00 Exercise
06.35 Records
07.00 News, Music
07.30 Morning Service (Weekd.)
07.55 Weather
08.00 Exercise (Weekd.)
08.00 Music (Sund.)
09.00 Service (Sund.)
09.15 School Broadcast (Weekd.)
10.45 Weather
11.00 Music
11.30 News
13.00 Talk, Music
13.00 Service (Sund.)
14.00 Music
15.20 Children's Hour (Weekd.)
16.00 Talk, Music
16.20 Shipping News (Weekd.)
16.30 Bourse News (Weekd.)
17.00 Language (Weekd.)
17.40 Programme Preview
17.45 News
18.00 Topical
18.15 Various
21.00 News
21.15 Talk, Music

Highlights of Programmes:

Symphony-Concert: Thursdays from 4/9-15/4 at 19.00 exc. the last *Thursday* in every month.

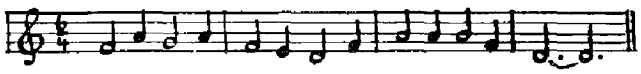
Popular Concerts: Sundays from 15.00-16.30 and from 19.00-20.00 September to April.

Plays: Every *Friday* until 21.00.

Topical Hour: Daily from 18.00-18.15 — recording from events of the day.

Announcement: "Danmarks Radio, København-Kalundborg (og Kortbølgesenderen)".

Interval-Signal: From an old Danish folksong



Daily at 11.00 and 19.00: The chimes of the Town Hall building in Copenhagen are heard.

DAILY PROGRAMMES ON SHORTWAVE

From 04.00-05.30 on 31.51 m:
To Greenland and North America. Weekdays.

From 11.00-12.30 on 19.78 m:
To East: Tuesday, Thursdays and Saturdays.

From 17.40-21.15 on 31.51 m:
The Home Programme. For European Listeners.

From 22.00-23.30 on 31.51 m (from ca. 1. Jan. 49):
To South America: Mondays, Wednesdays and Fridays.

On Shortwave: Danmarks Kortbølgesender — This is the Danish shortwave transmitter.

Programmes consist of News in Danish, Danish Music and Songs, Talks and Features about life in Denmark and Reportages. Every day is given a summary in English (to North America and East) and Spanish (to South America). There is no Interval Signal, but every transmission begins with the chimes of the Town Hall, followed by a wellknown Danish melody.

Message to Listeners: The Danish State Radio is very interested in receiving reports from listeners all over the world about programmes and reception conditions, and will to the greatest extent possible try to get in touch with countrymen and other interested listeners abroad in an endeavour to arrange the best possible shortwave-service. Reports answered by letter or QSL-card.

EIRE

Normal Clock Time — G. M. T.

Address: Radio Eireann, General Post Office, Dublin, Ireland.

Leading Personalities: Director: Mr. Charles E. Kelly. Deputy Director: Mr. R. O. Farachain, M. A. Staff Administrative Officer: Mr. A. Mac Giolla Iosa. Music Director (acting): Mr. Fachtna O h-Annrachàin. General Features Officer: Mr. Francis Mac Manus. Productions Director: Mr. H. L. Morrow. Staff Engineer: Mr. J. E. Lyons. Producer: Mr. Micheal O. hAodha.

Stations:

Athlone	565 kc/s	531,0 m	100 kW
Cork	1240 kc/s	241,9 m	1 kW
Dublin	1348 kc/s	222,6 m	2 kW
Athlone	9595 kc/s	31.27 m	1,5 kW
Athlone	11740 kc/s	25.55 m	1,5 kW (inactive)
Athlone	15120 kc/s	19.84 m	1,5 kW (inactive)
Athlone	17840 kc/s	16.82 m	1,5 kW

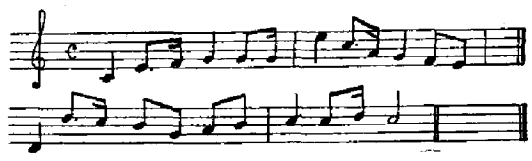
Daily Programmes on all medium waves: 13.00—14.30 and 17.30—23.00.

13.00 Music
13.30 News (Weekd.)
13.40 Music (Weekd.)
17.30 "Bel Canto" (Sund.)
18.00 Light Music (Sund.)
18.30 News
18.47 Progr. Prev. (Weekd.)
19.15 Radio Digest (Sund.)
20.15 Question Hour (Sund.)
22.00 News in Irish (Weekd.)
22.10 (Sund. 22.00) News in English
22.30 Hospitals' Trust Sponsored Programme

News on shortwave: 18.30—18.50 on 16.82 m. 22.10—22.30 on 31.27 m.

Announcement: "Radio Eireann". At closing down is played the National Anthem: "The Soldiers Song".

Interval-Signal: Opening bars of "O'Donnell Abu".



Message to Listeners: "Listeners letters on the quality of reception are always welcome, and we welcome the comments of listeners on the content of the programmes. Letters are answered by QSL card.

FINLAND

Normal Clock Time — G. M. T. plus 2 hours.

Address: OY Yleisradio Ab., Fabiansgatan 15, Helsinki. Cables: Yleisradio.

Leading Personalities: General Manager: Hella Wuolijoki. Second Director: Mr. O. Toivonen. Director of Finnish Programmes: Mr. J. Koskiluoma. Director of Swedish Programmes: Mr. R. Ölander. Chief Engineer: Mr. Juho Rissanen. Director of Administration: Mr. Einar Sundström.

Stations: Long- and mediumwave.

Lahti	160 kc/s	1875 m	150 kW National
Turku (Åbo)	895 kc/s	335.2 m	40 kW National
Helsinki I (Helsingfors)	1420 kc/s	211.3 m	10 kW National
Vaasa (Vasa)	1522 kc/s	197.0 m	10 kW Reg. and Relay
Kuopio	527 kc/s	569.0 m	20 kW Reg. and Relay
Oulu (Uleåborg)	433 kc/s	693.0 m	10 kW Reg. and Relay
Pietersaari (Jakobstad)	1500 kc/s	200.0 m	1 kW Reg. and Relay
Tammisaari (Ekenäs)	1500 kc/s	200 m	0,2 kW Reg. and Relay
Tampere (Tammerfors)	1492 kc/s	201.0 m	1 kW Reg. and Relay
Pori (Bjørneborg)	1429 kc/s	210.0 m	1 kW Reg. and Relay
Joensuu	310 kc/s	968.0 m	1 kW Reg. and Relay

Shortwaves:

Helsinki II	OIX7	6120 kc/s	49.02 m	10 kW
Lahti	OIX2	9500 kc/s	31.58 m	15 kW
Pori	OIX4	15190 kc/s	19.75 m	15 kW
Helsinki III	OIX5	17800 kc/s	16.85 m	15 kW

DAILY PROGRAMMES FOR LATHI (NATIONAL)
Weekdays: 04.00-05.00, 08.50-10.00, 15.30-21.00
(Saturdays 22.00)
Sundays: 05.45-21.00.

Sundays:
05.45 Music
06.30 News in Finnish
06.40 News in Swedish
06.50 Swedish by Radio
07.05 Russian by Radio
08.00 Religious Service (Finnish)
09.40 Programme Preview (Finnish)
09.45 Music
10.30 News in Finnish
10.40 News in Swedish
10.50 Programme Preview (Swedish)
11.00 Religious Service (Swedish)
12.25 Book of the week
12.35 Music and Various
16.00 Records
17.00 News in Finnish
17.15 News in Swedish
17.30 Music and Various
20.00 News in Finnish
20.10 News in Swedish
20.20 Music and Various

Weekdays:
04.00 News in Finnish
04.15 News in Swedish
04.25 Morning Prayer (Swedish)
04.45 Morning Prayer (Finnish)
08.00 Religious Service (Finnish)
09.00 Records and Various
09.40 Prgr. Preview, Records
10.00 The Bells of Abo Cathedral
10.15 Newspaper Review
10.30 News in Finnish
10.40 News in Swedish
10.50 Rates or Securities
15.30 Records and Various
16.50 Today . . .
17.00 News in Finnish
17.15 News in Swedish
20.00 News in Finnish
20.10 News in Swedish

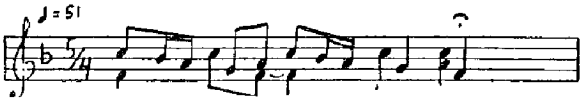
Highlights of Programmes: The principal concerts of the Radio Orchestra are on *Sundays, Tuesdays* and *Thursdays,* the times varying between 18.25 and 20.00. On *Fridays* at 18.05 or 19.00 we broadcast a part of the symphony concert of the Helsinki Town Orchestra and on *Sundays* at 12.35-13.35 a popular concert of the same orchestra. These concerts take place from the beginning of September till the end of May.

DAILY PROGRAMMES ON SHORT-WAVE

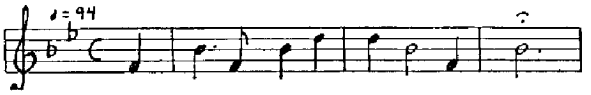
00.25-00.35 News and Press Review *English* on 49.02, 31.58 and 16.85 m
To USA, S. America and South-West Europe.
04.00-05.00 Program in *Finnish* only Weekdays on 49.02, 31.58, 19.75 and 16.85 m
To S. America and South-West Europe.
08.50-09.50 Program in *Finnish* on 49.02, 31.58, 19.75 and 16.85 m
To S. America and South-West Europe.
09.50-11.00 Program in *Finnish* on 49.02, 31.58, 19.75 and 16.85 m
To S. America and South-West Europe.
12.15-12.25 News and Press Review, *English* on 49.02, 31.58, 19.75 and 16.85 m
To USA, S. America and South-West Europe.
15.30-16.50 Program in *Finnish* on 49.02, 31.58 and 16.85 m
To S. America and South-West Europe.
16.50-17.45 Program in *Finnish* on 49.02, 31.58, 19.75 and 16.85 m
To USA, S. America and South-West Europe.
17.45-17.55 News and Press Review, *French* on 49.02, 31.58 and 16.85 m
To S. America and South-West Europe.
17.55-19.40 Program in *Finnish* on 49.02, 31.58 and 16.85 m
To S. America and South-West Europe.
19.40-21.00 Program in *Finnish* on 49.02, 31.58, 19.75 and 16.85 m
To S. America and South-West Europe.
22.05-22.15 News and Press Review. *French* on 49.02, 31.58, 19.75 and 16.85 m
To S. America and South-West Europe.

Announcements: *Finnish Programme:* "Suomen Yleisradio" followed by programme announcement over all stations. *Finnish and Swedish Programme:* "Suomen Yleisradio, Finlands Rundradio" over Helsinki, Abo, Vasa and Jakobstad.

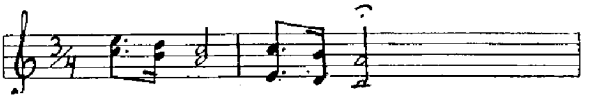
INTERVAL-SIGNALS
Every weekdays at 08.45: Normal-a.
Lahti: A fragment of the song "Tavastland" by Palmroth before transmission from the Lahti Studio.
Lahti and **Helsinki:** The interval signal is based on an old Finnish Melody "Kantelemelody".



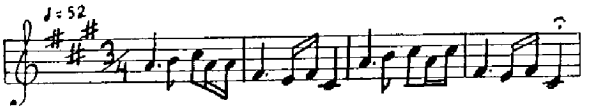
Abo: A fragment of the anthem of St. Henriks.
Vasa: The first notes of "Vasa March" by Karl Collan.



Kuopio: The first notes of a well-known song about the beauty of "Kallavesi".



Uleåborg: Lapp yodelling.



Message to Listeners: "The Finnish Broadcasting Corporation is interested in hearing from listeners all over the world and reception reports from listeners will be much appreciated and answered by QSL-card."

FRANCE

Normal Clock Time — G. M. T. plus 1 hour.

Address: Radiodiffusion Francaise, Secretariat d'Etat a la Presidence du Conseil, 107 rue de Grenelle, Paris VII°.

Leading Personalities: President: Mr. P. Rivet. Director General: Mr. W. Porche. Director of Administration: Mr. I. Meyer. Director of Programmes: Mr. P. Gilson. Director of National Programmes: Mr. Henri Barraud. Director of Shortwave Transmissions: Mr. J. Manachem. Technical Director: Mr. Leschi. Administrative Director: Mr. Tardas, Director of "Journal Parlé": Mr. Gayman.

Stations:
National Network. (The Branley Network).

Paris I (Villebon)	695 kc/s	431.7 m	100 kW
Pau (Bibiere)	968 kc/s	309.9 m	20 kW
Bordeaux I (Neac)	1077 kc/s	278.6 m	100 kW
Clermont-Ferrand I (Ennezat)	1321 kc/s	227.1 m	20 kW
Marseille II (Realtort)	1339 kc/s	224.0 m	20 kW
Lyon II (Dardilly)	1339 kc/s	224.0 m	25 kW
Limoges II (Nieul)	1339 kc/s	224.0 m	20 kW
Toulose II (Muret)	1339 kc/s	224.0 m	20 kW
Nancy II	1339 kc/s	224.0 m	10 kW
Montelimar	1348 kc/s	222.6 m	1 kW
Poitiers	1348 kc/s	222.6 m	1 kW
Nantes (Montbert)	1366 kc/s	219.0 m	10 kW
Nice II (Plateau Fleuri)	1393 kc/s	215.4 m	25 kW
Rennes II (Thourie)	1393 kc/s	215.4 m	24 kW
Dijon II	1393 kc/s	215.4 m	20 kW

Grenoble I	1393 kc/s	215.4 m	15 kW
Montpellier I	1393 kc/s	215.4 m	10 kW
Strasbourg II (Brumath)	1393 kc/s	214.4 m	10 kW
Lille II (Camphin)	1393 kc/s	215.4 m	20 kW

Parisienne Network. (The Ferrié Network).

Limoges I (Nieul)	648 kc/s	463.0 m	100 kW
Marseille I (Realtort)	749 kc/s	400.5 m	20 kW
Paris II (Romainville)	776 kc/s	386.6 m	10 kW
Quimper	832 kc/s	360.5 m	10 kW
Grenoble II	832 kc/s	360.5 m	0.05 kW
Montpellier II	832 kc/s	360.5 m	0.2 kW
Strasbourg I (Brumath)	859 kc/s	349.2 m	20 kW
Lyon (Tramoyes)	895 kc/s	335.2 m	100 kW
Toulouse I (Muret)	913 kc/s	328.6 m	100 kW
Nancy I	959 kc/s	312.8 m	20 kW
Montbeliard	1068 kc/s	280.9 m	10 kW
Montbeliard	1068 kc/s	280.9 m	100 kW
Nimes	1068 kc/s	280.9 m	2 kW
Bordeaux II (Neac)	1158 kc/s	259.1 m	20 kW
Dijon I	1158 kc/s	259.1 m	0,25 kW
Nice I (La Brague)	1185 kc/s	253.1 m	60 kW
Lille I (Camphin)	1213 kc/s	247.30 m	100 kW
Perpignan	1429 kc/s	209 m	1 kW
Clermont-Ferrand II (Ennezat)	1429 kc/s	209.0 m	1 kW
Saint-Brieuc	1429 kc/s	209.0 m	0.05 kW
Rouen-Louvetot	1486 kc/s	202.0 m	20 kW

Paris Inter:

Paris III (Rueil)	592 kc/s	506.7 m	2,5 kW
Allouis	6200 kc/s	48.39 m	100 kW

Weekdays from 05.50-23.15. *Sundays* from 06.30-22.15.
Relayed on 48.30 m from 11.15-14.20.
The programme consists generally of music, News every hour (a quarter past).

Radio Educative (Sorbonne):

University Broadcast on	182 kc/s	209 m	2 kW

Strasbourg. Long Wave.

Special Programme on	182 kc/s	16.48 m	20 kW

Shortwave Stations:

Allouis OC V	21740 kc/s	13.80 m	100 kW
Allouis OC III	21490 kc/s	13.96 m	100 kW
Muret OC II	17850 kc/s	16.81 m	100 kW
Allouis OC V	17810 kc/s	16.84 m	100 kW
Muret OC II	17780 kc/s	16.87 m	25 kW
Muret OC I	17765 kc/s	16.89 m	25 kW
Realtort OC II	15350 kc/s	19.54 m	25 kW
Realtort OC I	15295 kc/s	19.62 m	25 kW
Allouis OC I	15240 kc/s	19.68 m	100 kW
Allouis OC V	15130 kc/s	19.83 m	100 kW
Allouis OC III	15100 kc/s	19.87 m	100 kW
Muret OC II	11885 kc/s	25.24 m	25 kW
Allouis OC V	11870 kc/s	25.27 m	100 kW
Muret OC I	11845 kc/s	25.33 m	25 kW
Allouis OC I	11730 kc/s	25.58 m	100 kW
Allouis OC III	11720 kc/s	25.60 m	100 kW
Allouis OC I	11700 kc/s	25.64 m	100 kW
Allouis OC I	9680 kc/s	30.99 m	100 kW
Realtort OC II	9675 kc/s	31.01 m	25 kW
Realtort OC I	9620 kc/s	31.19 m	25 kW
Allouis OC IV	9585 kc/s	31.30 m	100 kW
Allouis OC III	9570 kc/s	31.35 m	100 kW
Les Essarts	9560 kc/s	31.39 m	100 kW
Allouis OC I	9550 kc/s	31.41 m	100 kW
Allouis OC IV	9540 kc/s	31.45 m	100 kW
Allouis OC I	9520 kc/s	31.51 m	100 kW
Allouis OC V	9515 kc/s	31.53 m	100 kW
Allouis OC I	7280 kc/s	41.21 m	100 kW
Realtort OC I	7270 kc/s	41.27 m	100 kW
Realtort OC II	7240 kc/s	41.44 m	100 kW
Allouis OC I	6200 kc/s	48.39 m	100 kW
Allouis OC IV	6175 kc/s	48.58 m	100 kW

HOME PROGRAMMES

Daily Programmes for National Network:

Sundays from 06.30-22.45.
Mondays, Thursdays and Saturdays from 05.45-09.15 and 11.00-22.45. *Tuesdays, Wednesdays and Fridays* from 05.45-09.15, 11.00-13.30 and 17.30-22.45.

Sundays:
06.30 Music
06.58 News
07.27 Progr. Preview
07.30 Religious Service
08.00 News
08.35 "Libré Pensée"
08.50 "Courrier des Auditeurs"
09.00 Grand Messe
10.00 Music
11.00 Jazz
11.58 News
13.00 News, Music
15.00 Broadcast from foreign countries
15.33 Music
17.00 Symphony Music
19.00 News
20.45 Music
22.00 Literary
22.15 Intern. Broadcasts
22.30 News

Weekdays:
05.30 News
05.45 Music
06.00 News
07.15 Exercise
07.33 Progr. Review
08.00 News
08.15 "Culture francaise"
12.00 News
13.00 News
19.00 News
22.15 Intern. Broadcasts

Highlights of Programmes:
Theatre: Mondays c. 19.30, Thursdays c. 13.15, Fridays c. 19.35, Saturdays c. 19.30.
Opera: Fridays c. 19.45.
National Orchestra: Thursdays c. 19.30.
Variety: Tuesdays and Wednesdays c. 19.35.
Symphony Concert: Saturdays c. 13.15.

Lyon (Dardilly): Relay every *Sunday* a religious service from Lyon from 09.00-11.00.

Announcement: "Ici Paris — Programme National Radiodiffusion Francaise".

DAILY PROGRAMMES FOR PARISIENNE NETWORK

Weekdays 05.30-07.45, 11.00-13.00 and 17.45-22.15 (Saturd. (23.00).
Sundays 07.00-22.15.

Weekdays:
05.30 News
11.30 News
11.40 "Télé Paris"
12.00 Music
18.30 "Paris vous parle"
20.00 20.00 "Tribune de Paris"
c. 21.00 Dance Music

Sundays:
07.31 News, Music
08.17 "Disques des Auditeurs"
09.00 "Tourisme et Travail"
09.30 Records
c. 10.30 "Le Magazine de la Radio"
11.30 News
14.35 Sport et Music
17.30 "Ici Newyork" from U. S. A.
18.30 "Paris vous parle"

Highlights of Programmes:
Theatre: Sundays 12.20.
"Surprise Partie" Cabaret: Saturdays c. 21.00.

Announcement: "Ici Paris Radiodiffucion Francaise Programme Parisienne".
Opening and close down with a fragment of "Marseillaise" respectively followed by the announcement..

The News opens with fragments of the symphony from a French song composed by Vincent d'Indy, and ends with a motive from "Marseillaise".

INTERVAL-SIGNALS
Strasbourg I: "Harfenspiel: Ja s'Elsass unser Lädel".
Lille I: "Le petit quinquin".
Paris I: Bells.

DAILY PROGRAMMES FOR STRASBOURG LONG-WAVE
From 07.30-08.00, 12.30-14.00 and 19.30-23.00.
Relay National, Parisienne and Paris Inter. altermating with short musical programmes. News in French and German.

Announcement in French and German: "Ici Emetteur National de Strasbourg — Radiodiffucion Francaise.

EUROPEAN SERVICE

Daily Programmes from 11.30-11.45 and 16.30-22.30.

05.30-05.45	To Germany (exc. Sun.)	on 1648 m Strasbourg
06.30-06.45	To Germany (exc. Sun.)	on 1648 m Strasbourg
11.15-11.30	To Germany (Weekd.)	on 1648 m Strasbourg
11.15-11.45	To Germany (Sun.)	on 1648 m Strasbourg
11.30-11.45	To Greece	on 19.68 m Relayed by R. Athens
13.15-13.20	To Italy (exc. Sun.)	on 41.21 m Rel. by RAI
17.00-17.30	To Poland (Tuesd., Wedn., Fri.)	on 247.3 m Lille
17.15-17.30	In Esperanto	on 41.21 m
17.20-17.30	To Austria (Tuesd.)	Cable to Vienna
17.30-17.45	To Czechoslovakia	on 41.21 m
17.45-18.15	To Poland	on 247.3 m Lille
18.00-18.15	To Finland	on 41.44 m
18.00-18.30	To Germany (exc. Sun.)	on 1648 m Strasbourg
18.00-19.15	To Germany (Sun.)	on 1648 m Strasbourg
18.15-18.45	To Italy (in French)	on 41.21 m
18.45-19.00	To Belgium	on 247.30 m
18.45-19.15	To Czechoslovakia	on 41.21 m
19.15-19.45	To Hungary	on 41.21 m
19.45-20.15	To Germany	on 41.21 m
19.45-20.15	To Spain	on 328.6 m Toulouse
20.15-20.45	To Portugal	on 41.21 m
20.45-21.00	To Italy	on 41.21 m
21.30-22.00	To Holland	on 247.30 m
21.30-22.30	To Great Britain	on 463.00 m
21.30-22.30	To Spain	on 328.60 m

On *Shortwave* is announced: "Ici Radio Paris, Radiodiffusion Française" in French and other Languages.

OVERSEAS SERVICE

Address: Emissions vers la France d'Outre Mer, 118 Champs-Elysées Paris.

DAILY PROGRAMMES
Every Programme consists of "Le Journal de Paris" and "Le Magazine de France".

00.15-00.30	To Latin America (French) on 31.41 m
01.15-01.45	To N. America (French/English) cable Radio France via Radio Canada.
04.00-04.15	To Madagascar, Somali, on 31.19 m
05.30-06.30	To Pacific on 31.41 m
06.45-07.45	To AOF and AEF on 16.81 m and 19.68 m
13.30-15.30	To Fr. Indochina on 16.81 m Relayed by N. Saigon.
16.15-1640	To N. America Mo., Wedn., Fri. (French/English) cable Radio Frace via Radio Cănada
16.15-17.15	To Madagascar, Somali, on 19.54 m.
17.30-18.00	To Near East on 19.68 m.
18.30-19.00	To N. Africa (French) on 41.44 m
19.15-20.00	To N. Africa (Arabian) on 41.44 m
20.15-21.45	To AOF and AEF on 19.68 m and 30.99 m
22.05-23.30	To Antilles, Guyana, on 31.41 m
23.30-23.35	To Latin America (Spanish) on 31.41 m
23.45-24.00	To N. America (English) on 25.64 and 31.41 m

Announcement: "Allo . . . (name of area) Paris vous parle".

Message to Listeners: Reports are answered by QSL-card.

GERMANY

Normal Clock Time — G. M. T. plus 1 hour.

Stations:

Deutschlandsender	Russian Z.	191 kc/s	1571 m	100 kW
Berlin "Wolga"	Russian Z.	284 kc/s	1060 m	20 kW
Berlin "Wolga"	Russian Z.	284 kc/s	1056 m	20 kW
Bremen	American Z.	527 kc/s	569 m	2,5 kW
Kaiserslautern	Südwestfunk	530 kc/s	566 m	2 kW
Potsdam	Russian Z.	564 kc/s	531 m	20 kW
Dresden	Russian Z	564 kc/s	531 m	1,5 kW
Stuttgart	American Z.	574 kc/s	522 m	100 kW
Frankfurt	AFN	601 kc/s	499 m	10 kW
Berlin RIAS	American Z.	610 kc/s	492 m	20 kW
Munich	American Z.	740 kc/s	405 m	100 kW
Leipzig	Russian Z.	785 kc/s	382 m	120 kW
Baden-Baden	Südwestfunk	827 kc/s	362 m	1,5 kW
Freiburg	Südwestfunk	827 kc/s	362 m	18 kW
Sigmaringen	Südwestfunk	827 kc/s	362 m	5 kW
Berlin	Russian Z.	841 kc/s	356 m	100 kW
Hamb.-Cologne	NWDR	904 kc/s	331 m	100 kW
Nuremberg	American Z.	950 kc/s	315 m	3 kW
Hof	American Z.	950 kc/s	316 m	0,3 kW
Koblenz	Südwestfunk	1031 kc/s	291 m	50 kW
Weimar	Russian Z.	1031 kc/s	291 m	20 kW
Berlin	BFN	1095 kc/s	274 m	1 kW
Elmshorn	BFN	1095 kc/s	274 m	10 kW
Hannover	BFN	1095 kc/s	274 m	10 kW
Langenberg	BFN	1095 kc/s	274 m	20 kW
Frankfurt	American Z.	1195 kc/s	251 m	60 kW
Schwerin	Russian Z.	1231 kc/s	243 m	20 kW
Munich-Stuttg.	AFN	1249 kc/s	240 m	100 kW
Kassel	American Z.	1267 kc/s	236 m	0,5 kW
Saarbrücken	French Z.	1267 kc/s	237 m	20 kW
Halle	Russian Z.	1303 kc/s	230 m	20 kW
Hannover	NWDR	1330 kc/s	225 m	20 kW
Berlin	NWDR	1330 kc/s	225 m	5 kW
Flensburg	NWDR	1330 kc/s	225 m	2,5 kW
Osnabrück	NNDR	1330 kc/s	225 m	5 kW
Herfort	BFN	1366 kc/s	219 m	20 kW
Beyreuth	AFN	1411 kc/s	213 m	10 kW
Berlin	AFN	1420 kc/s	211 m	0,4 kW
Bremen	AFN	1429 kc/s	209 m	2,5 kW
Bremerhaven	AFN	1500 kc/s	200 m	0,25 kW
Berlin RIAS	American Z.	6080 kc/s	49.34 m	50 kW
Munich	American Z.	6160 kc/s	48.70 m	1 kW
Stuttgart	American Z.	6180 kc/s	48.54 m	10 kW
Frankfurt	American Z.	6190 kc/s	48.47 m	1 kW
Baden-Baden	Südwestfunk	6321 kc/s	47.46 m	1 kW
Elmshorn	NWDR	7290 kc/s	41.14 m	25 kW
Berlin "Wolga"	Russian Z.	7615 kc/s	39.40 m	100 kW
Leipzig	Russian Z.	9730 kc/s	30.83 m	12 kW

Relay-Stations:

Munich III Relay f. USA.	American Z.	6080 kc/s	49.34 m	85 kW[1])
Munich I Relay f. USA.	American Z.	6170 kc/s	48.62 m	85 kW[1])
Munich IV Relay f. USA.	American Z.	7250 kc/s	41.38 m	85 kW[1])
Munich II Relay f. USA.	American Z.	9540 kc/s	31.45 m	85 kW[1])
Munich I	American Z.	6170 kc/s	48.62 m	85 kW[1])
Norden Relay f. BBC.	British Z.	657 kc/s	456 m	100 kW[2])

[1]) See U.S.A. [2]) See Gr. Brt.

American Zone

AMERICAN FORCES NETWORK

Address: American Forces Network, Public Information Office, APO 757, U. S. Army, Frankfurt.

Leading Personalities: Chief: Lt. Col. Walter G. Ball; Chief of Operations: Mr. Louis Adelman; Program Supervisor: Mr. Bruce L. Wendell; Technical Supervisor: Mr. Walter R. Cleary; News Chief: Mr. William Murray; Public Information Director: Mr. Edward Norworth; AFN-Berlin Station Manager: Capt. George B. Morgan; AFN-Bremen Station Manager: Lt. Edward Tait; AFN-Munich and -Stuttgart Manager: Capt. Joseph H. Gigandet.

Stations:

Munich/Stuttgart	1249 kc/s	240.2 m	200 kW
Frankfurt	601 kc/s	492.0 m	10 kW
Bayreuth	1411 kc/s	213.0 m	10 kW
Berlin	1420 kc/s	211.3 m	0,4 kW
Bremen	1429 kc/s	209.0 m	1,5 kW
Bremerhaven	1500 kc/s	200.0 m	0,25 kW

Daily Programmes: 05.00-23.00.

05.00	Record Show	13.00	News, Music
05.30	News	15.00	News
06.15	News	15.02	Outpost Concert (s)
06.30	Fred Waring (ss)	15.55	Progr. Highlights (s)
07.00	Repeat Performance (ss)	16.45	Vespers (s)
07.30	Music	17.00	Supper. Club (ss)
08.00	Musical Srapbook (Sun. Progr. Preview)	17.15	World & Home News (s)
		17.30	Sportlight on Sports (s)
08.30	Bandstand (s)	20.00	Report from Europe (Sun. News)
10.30	Melody Round-Up (ss)		
10.45	At Ease (ss)	21.50	News, Music
11.00	News	22.58	News
12.45	Remember (ss)		

(s) means *Daily exc. Sundays*
(ss) means *Daily exc. Saturdays and Sundays*

We have asked very often why programs most popular with the listeners are not heard on a regular basis. Programs such as Bob Hope, Jack Benny, etc., are broadcast in the US from October to April or May. The shows aired through the winter in the US are recorded and sent to us, but there is a lapse of several months between the original date of the program and the time it is heard on AFN.

Announcement for Frankfurt, Bremen, Berlin, Munich and Stuttgart: "This is the American Forces Network serving American Forces in Europe."

Interval-Signal: Time pips every hour on the hour. Broadcasting commences and concludes with the National Anthem.

Message to Listeners: Reports are welcome and are answered with special QSL cards.

RADIO BREMEN

Address: Schwachhauser Heerstrasse 363, Bremen.

Leading Personalities: Intendant: Mr. Walter Geerdes. Head of Information: Dr. Hans Arnold.

Station: Bremen. 527 kc/s 569 m 2,5 kW

Daily Programmes:
Weekdays: 05.30-08.05, 11.00-13.00 and 16.00-22.00.
Saturdays: 05.30-08.00, 11.00-22.00.
Sundays: 06.00-22.00.

Highlights of Programmes:
Symphony Concert: 19.15 Wednesdays. — *Chamber Music:* 19.15 Tuedays. — *Radio Theatre:* 20.15 Mondays. *"Stunde des Liedes":* 16.15 Mondays.

Announcement: "Hier ist Radio Bremen".

Interval Signal: The notes b-d-e.

Signature Tune: Orchestra-Fanfare.

Message to Listeners: Letters and reports from listeners are answered by letter: return-postage not necessary.

RADIO FRANKFURT

Address: Radio Frankfurt Information Services Division, Radio Branch A. P. O. 757, U. S. Army, 10/33 Eschersheimerlandstrasse, Frankfurt-on-Main.

Leading Personalities: German Intendant: Eberhard Beckmann. Chief Radio Branch: Mr. Robert H. Lochner.

Stations:

Frankfurt	1195 kc/s	251 m	60 kW
Kassel	1267 kc/s	236 m	½ kW
Frankfurt	6190 kc/s	48.47 m	1 kW

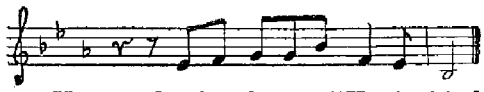
Daily Programmes: *Mondays, Tuesdays, Thursdays, Fridays* and *Saturdays:* From 05.00-08.45, 10.15-14.30 and 15.00-23.00 (Fri., Sat. 24.00). *Wednesdays* and *Fridays:* 05.00-08.45 and 10.15-23.00. *Sundays:* 05.30-23.00.

Sundays:		*Weekdays:*	
05.30	Music	05.00	Music, News
06.30	News	06.00	Rundschau aus dem Hessenland
06.45	Rundschau aus dem Hessenland	06.15	Progr. Preview, Music
07.00	Progr. Preview	08.00	News from Germany
07.45	"Deutschlandspiegel"	08.15	Suchmeldungen
08.00	Service	10.45	"Der hessische Landbote"
08.45	Progr. Preview for the week	11.00	Music
09.30	Chamber Music	11.35	Rundschau aus dem Hessenland
10.45	"Der hessische Landbote"	11.45	News, Music
11.35	Rundschau aus dem Hessenland	13.45	Suchmeldungen
11.45	News	15.00	Music
14.00	Letters from listeners	16.45	News
16.00	Symphony Concert	18.00	The Voice of US
18.00	The Voice of US	18.30	Progr. Preview, Music
19.00	News, Music	18.45	Rundschau aus dem Hessenland
22.00	News, Dance Music	19.00	News
23.00	News	22.00	News, Music
		23.00	News

Highlights of Programmes:
Opera: 19.15 Wednesdays
Symphony Concert: 19.15 Thursdays
Theatre: 19.15 Fridays
'Abendstudio": 20.15 Tuesdays
"Doppelt oder Nichts": Public Quizz: 19.15 every 2nd Saturday
Quizz London-Frankfurt: 20.00 every 2nd Saturday

Announcement: "Hier ist Radio Frankfurt, ein Sender der Militärregierung".

Interval-Signal:



Motif from Humperdincks Opera "Königskinder" ("Waldhorn")

RADIO MUNICH

Address: Radio München, Rundfunkplatz 1, Munich.

Leading Personalities:
American Control Officers: Mr. Edmund Schechter, Chief of Branch, Mr. Brill, Deputy Chief; Lt. Col. Brickson; Mr. Gruenfeld, Production and Traffic Manager; Mr. Lynd, Continuity.
German Heads: Dr. Hoppichler, Administration, Mr. Zaeckel, Intendant, Mr. Rudolf v. Scholtz, Manager: Mr. Ludwig v. Türkheim Geisler.

Stations:

Munich	740 kc/s	405.4 m	100 kW
Nuremberg:	950 kc/s	315.8 m	3 kW
Hof	950 kc/s	315,8 m	0,3 kW
Munich	6160 kc/s	48,7 m	1 kW

Daily Programmes: *Weekdays* (exc. Sat.) 05.00-13.15 and 14.30-24.00. Saturdays and Sundays 05.00-24.00.

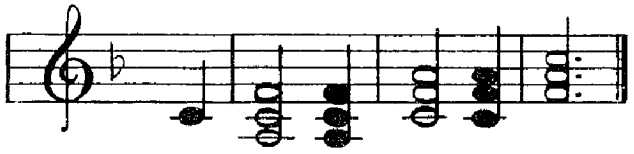
Weekdays:
05.00 Music
05.30 News, Exercise
06.00 Music
06.45 Progr. Preview, News
07.45 News, "Kindersuchdienst"
08.45 Music
11.00 Music
12.00 News
16.00 News
17.30 Actuelles, Music
18.00 The Voice of US
19.00 News
22.00 News

Sundays:
05.00 Music
05.30 News, Music
07.45 News
09.00 Catholic Service
09.30 Evangelic Service
10.00 Music
11.15 Music
12.00 News
13.15 "Aus dem Kulturleben"
16.00 Symphony Concert
18.00 The Voice of US
18.45 World Press Review
19.00 News, Music
21.15-00.00 "Beliebte Künstlern, beliebte Melodien"
22.00 News

Highlights of Programmes:
Sunday: 16.00 Symphony Concert.
Tuesday: 20.15 Philharmonic Concert
Wednesday: 20.00 Studio Play
Thursdays: 21.00: "Die tönende Leinwand". 21.45: "Gedanken zur Zeit"
Friday: 19.20 Opera or Operette

Announcement:
"Hier ist Radio München, ein Sender des Militärregierung". — Callsignal: "Bandltanz" is played at 05.00 and 14.30 daily exc. Saturdays and Sundays.

Interval-Signal: "So lang der alte Peter".



Message to Liteners: Reports are answered by QSL cards.

RADIO STUTTGART

Address: Radio Stuttgart, 145 Neckarstrasse, Stuttgart Operated by Radio Branch Information Services Division OMG W3 7780 OMGUS — Group Württ-Baden. Section APO 154 US Army Branch-Studios in Heidelberg and Karlsruhe.

Leading Personalities:
Chief Radio Branch: Mr. Fred G. Taylor jr.
Deputy Chief: Mr. Kip Chevalier
US Radio Officer: Miss Margarete Sweder
German Indendant: Mr. Erich Rossmann
Programme Director: Dr. Peter Kehm

Stations: *Radio Stuttgart:*

574 kc/s	522.6 m	100 kW
6180 kc/s	48,5 m	10 kW

Daily Programmes:
Weekdays: 05.00-09.45, 10.30-13.45 and 14.55-23.00
Saturdays: 05.00-09.30 and 10.30-23.00
Sundays: 05.00-23.00

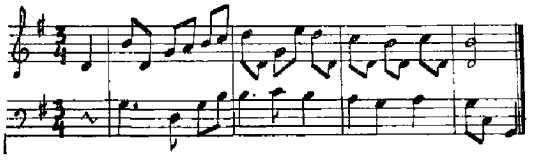
Weekdays:
05.00 Music
05.45 News, Progr. Preview
08.15 "Suchmeldungen"
08.45 News
09.30 Progr. Preview for next Week at dictation speed (Wedn.)
11.00 Music
11.45 News
14.55 Progr. Preview, Music
16.45 News
17.15 "Der Zeitfunk"
18.00 The Voice of US
18.45 News
21.00 News, Commentary
22.55 News

Sundays:
05.00 Music, Progr. Preview
06.45 News
08.00 Service
08.30 Church Music
09.30 Concert
11.45 News
12.30 "Aus der Schwäbischen Heimat"
16.00 Drama
18.00 The Voice of US
18.45 News
19.00 Masters of Music
21.15 News, Dance Music
22.55 News

Highlights of Programmes:
Symphony Concert: 20.00 Thursdays.
Intern. Volkmusik: 19.00 Tuesdays.
Opera Concert: 19.00 Wednesdays.
Cabaret: 22.00 Wednesdays, 19.00 Saturdays.
Family Hour: 20.02 Fridays.
Variety Show: 15.00 Saturdays.

Announcement: Daily broadcasts begin with interval signal and conclude with a theme from the First Symphony by Brahms. Announcement is: Hier Radio Stuttgart.

Interval-Signal: For Radio Stuttgart is the following cembalo melody: "Jetzt gang i'ans Brünnele".



Message to Listeners: Reports from listeners are answered by letter. Return postage not necessary.

BERLIN RIAS

Address: Radio Berlin, Information Control Section U. S. Headquarters, Berlin District, A. P. O. 755 U. S. Army, Winthefeldtstrasse 28/30 Berlin.

Leading Personalities: Chief Radio Branch: Miss Ruth Norden. Director: Mr. Heimlich. Intendant: Dr. Heinecke. Head of Information: Mr. Kolschorn.

Stations:

Berlin:	610 kc/	491.8 m	20 kW
	6080 kc/s	49.34 m	50 kW

Daily Programmes from 06.00-21.45 or 22.00.
11.50 Concert
13.30 News
15.00 Concert
15.30 News
16.15 Concert
17.00 "Berliner Pressespiegel"
17.15 Music
18.00 "Die Stimme Amerikas"
18.30 News
18.45 Berlin in Rias
21.30 News

British Zone

BRITISH FORCES NETWORK IN GERMANY (B.F.N.)

Address: B. F. N., Broadcasting House, Hamburg, Germany (B. A. O. R.)

Leading Personalities: Station Director: Mr. A. E. Sutherland. Production Manager: Mr. Raymond Baxter. O. C. Progr. Section: Capt. N. A. Powley.

Stations: Hamburg, with following transmitters:

Herford	1366 kc/s	219 m	20 kW
Hannover	1095 kc/s	274 m	10 kW
Langenberg	1095 kc/s	274 m	20 kW
Berlin	1095 kc/s	274 m	1 kW
Elmshorn	1095 kc/s	274 m	10 kW

Daily Programmes in *English* on all frequencies:
Sundays: 06.00-23.03.
Weekdays: 05.30-23.03 (Saturd. 24.00).

Daily:
07.00 News (exc. Sun.)
08.00 News
09.30 Canteen Break (exc. Sun.)
10.00 Forces Educational Broadcast (exc. Sun.)
11.15 Round the Records (exc. Sun.)
12.00 News
12.15 Concert Hour (exc. Sun. Wedn., Sat.)
16.00 The 1700 Club (exc. Sun., Wedn., Sat.)
18.00 News
21.00 News

Sundays:
10.15 BFN Sports Age
12.15 Family Favourites
14.00 Sun. Afternoon Concert
17.30 Do you know
21.15 Poets' Corner

Mondays:
19.00 On Parade

Tuesdays:
17.15 Southern Serenade
21.15 Old Comrades

Wednesdays:
20.15 Wedn. Evening Concert
21.15 BFN Music Shop

Fridays:
21.45 Nocturne

Saturdays:
14.00-17.00 Sport
19.00 Week-End Concert
23.00 Sat. Night.Swing Shift

Announcement: "This is the British Forces Network".

Interval-Signal:

Message to Listeners: "We are always interested to receive reports on reception, and comments or suggestions on programmes. Letters will be appreciated and answered."

NORDWESTDEUTSCHER RUNDFUNK

Address: Nordwestdeutscher Rundfunk — Rothenbaumchausse 132/134, Hamburg 13 — Dagobertstrasse 38, Köln. — Heidelberger Platz 3, Berlin-Wilmersdorf. — Bismarkstrasse 35, Hannover.

Leading Personalities: General Director: Minister Adolf Grimme. Deputy Controller (Eng.): Mr. W. J. Chalk. Deputy Controller (Adm.): Mr. P. W. H. Smith. Director of Engineering: Dr. W. Nestel. Director of Administration: Mr. H. H. Wirtz. Director of Programmes: Mr. E. Schütz. Intendant Köln: Mr. H. Hartmann. Manager Köln: Mr. H. H. Fischer. Manager Berlin: Mr. H. E. Haberfeld. Manager Hannover: Mr. H. Guhr.

Administration: Mr. H. H. Wirtz. Director of Programmes: Mr. E. Schütz. Intendant Köln: Mr. H. Hartmann. Manager Köln: Mr. H. H. Fischer. Manager Berlin: Mr. H. E. Haberfeld. Manager Hannover: Mr. H. Guhr.

Stations:

Hamburg and Cologne	904 kc/s	331.9 m	100 kW
Berlin	1330 kc/s	225.6 m	5 kW
Hannover	1330 kc/s	225.6 m	20 kW
Osnabrück	1330 kc/s	225.6 m	5 kW
Flensburg	1330 kc/s	225.6 m	2 kW
Shortwave	7290 kc/s	41.15 m	25 kW

Daily Programmes: *Weekdays:* 04.00-23.00 (Sat. 01.00)
Sundays: 05.00-23.30

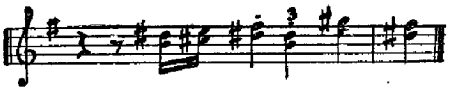
Weekdays:
04.00 Music
04.45 News, Music
05.20 English by Music
05.45 News, Progr. Preview
06.00 Service
06.10 "Wir erinnern an"
06.45 News, Music
07.45 News
09.30 Music
11.00 Music
11.45 News
12.00 News from Berlin, Music
12.50 Suchdienst
14.30 Berlin am Mikrofon or Bourse
16.00 Music
17.00 "Westdeutsche Tagesbuch" (Sat.)
17.30 Berliner Fenster (Sat.)
17.45 News
20.45 News, Echo des Tages
23.00 News
23.05 Berlin am Mikrofon

Sundays:
05.00 Music
05.45 News, Progr. Preview
06.00 Music
07.00 Organ. Music
07.45 News
08.00 Religious Service
09.45 "Meister Ihres Fach" (Music)
11.45 News, Progr. Preview
12.00 News from Berlin
12.50 Suchdienst
14.00 "Was Ihr wollt"
16.30 Dance Music
17.00 "Meisterwerke der Music"
17.45 News
18.00 "Gedanke der Zeit"
18.30 Music
20.45 News
23.00 News
23.05 Berlin am Mikrofon

Highlights of Programmes:
Sundays: 09.00 Religious Service, 17.00 "Meisterwerke der Musik". *Mondays:* 19.00 Symphony Concert. *Tuesdays:* 19.30 Dance Music. *Wednesdays:* 18.30 As you like it. *Thursdays:* 19.00 Radio Play. *Fridays:* 18.00 Opera. *Saturdays:* 15.00 "Bunter Nachmittag", 19.00 "Bunter Abend". 21.30 Dance Music.

Announcement: "Nordwestdeutscher Rundfunk, Sender ... Hamburg, Köln, Hannover oder Berlin."

Interval-Signal:
Motiv from the first movement of Johs. Brahms 4th Symphony, played from Hamburg on two oboes, Cologne on two horns, Berlin on two clarinets and Hannover on two trumpets.



Message to Listeners: Letters are answered mainly by letter by the respective department concerned. No postage to be enclosed.

French Zone

SÜDWESTFUNK

Address: Südwestfunk Zentrale Baden-Baden Hotel Kaiserin Elisabeth, Moltkestrasse 5, Baden-Baden.
Studio Freiburg-Sigmaringen, Freiburg Kaiser Josefstrasse 270.
Studio Kaiserlautern, Kaiserlautern, Kanalstrasse 4.
Studio Koblenz, Koblenz-Lützel.

Leading Personalities: Chief of Radio Branch: Mr. P. Ponnelle. General-Intendant: Mr. Friedrich Bischoff. General-Director: Mr. Oscar Schneider-Hassel. Chief

Engineer: Mr. Anton Weingärtner. Chief of Studios: Mr. Lothar Hartmann. Chief of Music: Dr. Heinrich Strobel. Chief of Entertainment: Mr. Günter Bungert. Chief of Plays: Mr. Christian Boehme. Chief of Literature: Mr. Herbert Bahlingen. Chief of Information Dpt.: Mr. Franz-Ferdinand Schwarzenstein.

Stations:

Kaiserlautern	530 kc/s	566 m	2 kW
Freiburg	827 kc/s	362.6 m	18 kW
Sigmaringen	827.4 kc/s	362.6 m	5 kW
Baden-Baden	827 kc/s	362.2 m	1,5 kW
Coblenz	1031 kc/s	291.0 m	50 kW
Baden-Baden	6321 kc/s	47.46 m	1 kW

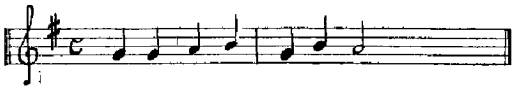
Daily Programmes:
Weekdays: 05.00-08.05, 10.30-13.45 and 15.00-23.05 (Sat. 10.30-00.00)
Sundays: 05.00-23.05

05.00 News, Music
06.00 News, Progr. Preview Music
07.00 News, Music
07.30 News in French from Paris
11.00 News, Progr. Preview Music
12.00 News, Music
12.45 Progr. in German from Paris
17.00 News from Germany (not Sun.)
18.30 "Tribüne der Zeit"
21.00 News, Progr. Preview
21.15 Progr. from Paris
23.00 News

Highlights of Programmes:
Symphony Concert: 16.00 Sundays, 15.00 Tuesdays.
Classical Music: 18.15 Mondays.
Theatre: c. 19.45 Tuesdays.
"Für Kenner und Liebhaber" (Music and Literature): 22.30 Thursdays.
Orchestra Concert: 20.00 Wednesdays.

Announcement: "Hier ist der Südwestfunk mit der Sendern Baden-Baden, Koblenz, Freiburg-Sigmaringen und Kaiserslautern." Regional programmes are announced: "Hier ist der Südwestfunk Studio Freiburg, (Kaiserlautern oder Koblenz)."

Interval-Signal: *Baden-Baden:* Motive from "Zauberfloete". *Coblenz:* First notes from Rheinishen Volkslied: Dort wo der Rhein.



Freiburg and *Sigmaringen:* "Glockenmotiv des Freiburger Münsters".
Kaiserslautern: First notes from the song: Ein Jaeger aus Kurpfalz.

Message to Listener: "Bitte senden sie uns Empfangsbeobachtungen, Reports are answered by letter."

U. S. S. R. Zone

Chief of the Broadcasting Stations in USSR Zone is Generaintendant Mr. Mahle; whose address is: Deutsche Verwaltung für Volksbildung in der Sowjetischen Besätzungszone, Mauerstrasse 42-52, Berlin W. 8.

BERLINER RUNDFUNK

Address: Masurenallee 8-14, Berlin-Charlottenburg 9.

Leading Personalities: Intendant: Mr. Heinz-Schmidt. Vice-Intendant: Mr. Wilhelm Cirnus. Director of Programme: Mr. Peter Huchel. Chief Engineer: Mr. Theodor Schuster.

Stations:
Berliner Rundfunk.

Deutschlandsender	191 kc/s	1571 m	100 kW
Berlin I	841 kc/s	356.7 m	100 kW
Potsdam	564 kc/s	532.0 m	20 kW
Schwerin	1231 kc/s	243.7 m	20 kW

DAILY PROGRAMMES FOR BERLIN: MITTELWELLE

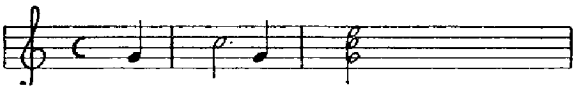
Weekdays: 04.00-08.30 and 10.00-23.10 (Saturdays 02.00)
Sundays: 05.00-00.00.

Weekdays:
04.00 News, Music
05.00 News, Music
06.00 News
07.00 News, Press Review
07.40 "Suchdienst"
10.00 News, Music
12.00 News, "Stadsreporter"
12.20 "Buntes allerlei"
13.00 Press Review, Music
15.00 News, Music
15.10 Concert
17.00 "Stadt- und Landberichte"
17.15 "Wirtschaftsspiegel
18.00 Eveningsong
19.00 News, Music
21.00 News, Progr. Preview
22.00 "Der heutige Tag"
23.00 News
23.10-02.00 Dance Music (only Sat.)

Sundays:
05.00 Music
06.10 Radiobastler or Stampcollector, Music
07.00 News, Music
08.00 Religious Service
09.00 News, Progr. Preview
09.20 Concert
10.15 "Hörerbriefe"
10.30 Bach-Concert
11.00 Commentary, Concert
12.00 News
13.10 Music
14.00 "Die Sonntagskinder"
14.30 Opera Music
15.15 "Pulsschlag"
15.30 Music
17.00 Kulturfragen
17.10 Music
18.30 Theaterspiegel
20.45 Actuelles
21.00 News, Sport
22.00 "Bunte Stunde"
23.00-00.00 News, Music

Highlights of Programmes:
Opera or Operette: 19.15 on Mondays.
"Pulsschlag": 18.40 Mo., Tuesd., Thursd., Frid.
"Probleme unser Zeit": 18.03 Mo., Wedn., Frid.
"Musikalische Meisterwerk": 22.05 Thursdays.
Symphony: 19.15 Wednesdays.

Interval-Signal:
Berlin: "Empor zum Licht".



DAILY PROGRAMMES FOR DEUTSCHLANDSENDER

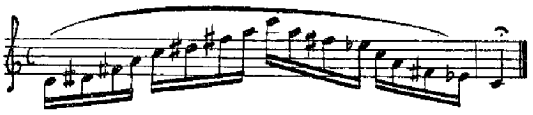
Weekdays: 05.00-09.00, 11.00-00.00 (Sat. 02.00). *Sundays:* 05.00-00.05

Weekdays:
05.00 News, Music, Progr. Preview
06.00 News, Exercise, Music
07.00 News, Press Review
11.00 Concert
12.00 News
12.15 Quer durch Deutschland
14.20 Music
15.00 Concert
16.00 News, Press Review, Music
17.15 Music
17.45 Deutschlands Stimme (Wednesd.)
18.00 News
20.00 "Wir sprechen für Westdeutschland"
20.30 Concert
21.00 News
22.55 "Der heutige Tag"
23.00 News, Music
23.30 Progr. Preview for the week (Tuesdays)

00.15-00.45 Informationsdienst für die Presse (also 30.83 m).

Sundays:
05.00 New, Music
06.25 Music
07.00 News
08.00 "Volksmusik"
09.00 News, Music
11.00 Commentary, Concert
12.00 News
12.25 Music
13.00 "Welt im Funk"
13.15 Music
14.0 "Die Sonntagskinder"
14.30 Music
16.40 "Treffpunkt Berlin"
17.45 Actuelles
18.00 News
17.00 Opera Music
18.00 Symphony Concert
20.00 "Wir sprechen für Westdeutschland"
20.30 Dance Music
21.00 News, Sport
21.35 Dance Music
23.00 News, Music

Highlights of Programmes:
"Lieblinge vor dem Mikrofon": 19.30 Thursdays.
"Volkslieder der Nationen": 20.30 Wednesdays.
"Musikalisches Meisterwerke": 21.50 Mo., Wedn., Fri.
"Operette Music": 20.30 Mondays.



MITTELDEUTSCHER RUNDFUNK

Address: Sender Leipzig, Springerstrasse 24, Leipzig N. 22.

Leading Personalities: Intendant Rudolf Pfützner and Intendant Werner Fehlig.

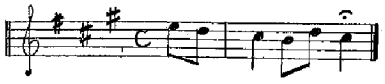
Stations:

Dresden	564 kc/s	532.0 m	1.5 kW
Leipzig	785 kc/s	382.2 m	100 kW
Erfurt	1031 kc/s	291.0 m	20 kW
Halle	1303 kc/s	230.2 m	20 kW
Shortwave	9730 kc/s	30.83 m	12 kW

Daily programmes for Sender Leipzig
Weekdays: 04.00-09.15 and 11.00-23.10 (Sat. 02.00)
Sundays: 05.00-24.00.

Weekdays:
04.00 News, Progr. Preview, Music
06.00 News
07.45 Progr. Preview, News
11.00 News, Music
13.00 Music
14.00 Music
16.00 News, "Kulturecho"
17.00 Mitteldeutsche News, Leipziger Stadtreporter
18.00 "Zeitgeschehen"
18.30 News, Commentary, Progr. Preview
20.30 News
20.45 "Probleme der Zeit"
21.00 Music
22.00 Music
23.00 News
23.10-02.00 Music (only Sat.)

INTERVAL-SIGNAL:
Leipzig: "Phantasie (Freie Erfindung)".



THE RUSSIAN ARMED FORCES STATION »WOLGA«

284 kc/s, 722 kc/s and 7615 kc/s.
From 05.00 to 23.00; relay the programmes of Moskva I (174 kc/s from 05.00 to 18.00 and from 20.00 to 23.00.
From 18.00 to 20.00 hours you can listen to a Berlin program for the Russian garrison army.
Berlin "Wolga" relay from Moskva all transmissions in german language for Germany only on 722 kc/s and 7615 kc/s. (Not on 284 kc/s).

GREAT BRITAIN

Normal Clock Time — G. M. T.

Address: The British Broadcasting Corporation, Broadcasting House, Portland Place, London W 1.

Leading Personalities: Chairman: The Lord Simon of Wythenshawe, L.L.D. Vice-Chairman: The Dowager Marchioness of Reading, G. B. E. Director General: Sir William Haley, K. C. M. G. Director of Technical Services: Sir Noel Ashbridge, M. I. C. E., M. I. E. E. Director of Home Broadcasting: B. E. Nicolls, C. B. E. Director of Overseas Services: Major General Sir Ian Jacob K. B. E., C. B. Director of Administration: Air Chief Marshal Sir Norman Bottomley, K.C.B., C.I.E., A.F.C., D.S.O. Director of the Spoken Word: G. R. Barnes. Controller, Home Service: R. E. L. Wellington. Acting Controller, Light Programme: T. W. Chalmers. Controller of Third Progr.: H. J. G. Grisewood. Controller, Television: Norman Collins. Controller, Entertainment: R. J. F. Howgill. Controller, Talks: R. A. Rendall. Controller, Finance: T. Lochhead, C. B. E. Controller, Staff Administration: W. St. J. Pym, C. B. E. Chief Engineer: H. Bishop, C.B.E., F.C.G.I., M.I.E.E.E. Acting Editor, News: T.R.P. Hole.

HOME PROGRAMMES

FREQUENCIES FOR HOME PROGRAMMES ON LONG- AND MEDIUM WAVES:

Home Service:

668 kc/s	449.1 m	North Regional
767 kc/s	391.1 m	Scott Regional
804 kc/s	373.1 m	Welsh Regional
877 kc/s	342.1 m	London Regional
977 kc/s	307.1 m	Western Regional
1013 kc/s	296.2 m	Midland Regional
1050 kc/s	285.7 m	North of England
1050 kc/s	285.7 m	Northern Ireland
1384 kc/s	216.8 m	Western Regional

Light Programme:
200 kc/s 1500 m
1149 kc/s 261.1 m

Third Programme:
583 kc/s 514.5 m
1474 kc/s 203.5 m

DAILY PROGRAMMES FOR HOME:

Home Service:
Weekdays from 05.30-22.03
05. 30 Music
06.00 News
06.15 Music
06.10 Progr. Parade
06.15 Music
07.00 News
07.10 Progr. Parade
09.15 The Daily Service
09.30 Music
12.00 News
13.00 Schools (or Music)
17.00 News
20.00 News
22.00 News Summary

Sundays from 06.55-22.03
06.55 Weather Forecast
07.00 News
07.10 Progr. Parade
07.20 Music
08.20 Programme Parade
08.30 Morning Service
09.15 Music
12.00 News
12.50 Music
17.00 News
18.45 Evening Service
20.00 News
22.00 News

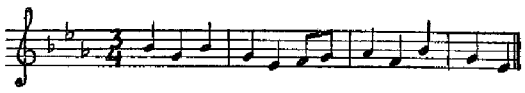
Interval-Signal: Bow Bells

Light Programme:
Weekdays from 08.00-23.00
08.00 News
08.10 Housewives' Choice
09.00 Forces Educational Service
10.15 Music
12.00 Concert Hour
13.00 Woman's Hour
14.00 Music
15.00 Mrs. Dales' Diary
17.15 Music
18.00 News, Newsreel
18.30 Light Entertainment
21.00 News
21.35 Dance Music
22.56 News Summary

Sundays from 07.00-23.00

07.00 Music	18.00 News
08.00 News	19.00 Music
08.10 Music	20.00 Sunday Half Hour
10.30 People's Service	21.00 News
11.00 Music	22.56 News summary

Interval-Signals:
1) Orange and Lemons.



There are four versions, one played on the novachord and three played on the novachord celeste; the last three differ in that they are of varying duration.
2) Harp arpeggio — a choice of eight harp interludes which include simple variations on the "Orange and Lemons" theme.

Third Progr.: Daily from 17.00-22.00
This progr. consists generally of music, radio-plays and talks. There are no news broadcasts.

EUROPEAN SERVICE

FREQUENCIES FOR EUROPEAN SERVICE

Long- and Medium Waves:

167 kc/s	1796 m	658 kc/s	456 m	1122 kc/s	267.3 m

Short Waves:

6050 kc/s	49.59 m	9525 kc/s	31.50 m	11860 kc/s	25.30 m
6150 kc/s	48.78 m	9625 kc/s	31.17 m	11930 kc/s	25.15 m
6180 kc/s	48.54 m	9640 kc/s	31.12 m	15070 kc/s	19.91 m
7120 kc/s	42.13 m	9675 kc/s	31.01 m		
7210 kc/s	41.61 m	9690 kc/s	30.96 m	15300 kc/s	19.61 m
7230 kc/s	41.49 m	9825 kc/s	30 53 m	15450 kc/s	19.42 m
7260 kc/s	41.32 m	11680 kc/s	25.68 m	17700 kc/s	16.95 m
7280 kc/s	41.21 m	11700 kc/s	25.64 m	21640 kc/s	13.86 m
7320 kc/s	40.98 m	11770 kc/s	25.49 m	21675 kc/s	13.84 m
9410 kc/s	31.88 m	11800 kc/s	25.42 m		

DAILY PROGRAMMES FOR EUROPE:

04.30-04.45 Russian-Rumanian
04.45-05.00 English-Bulgarian
05.00-05.15 German-Greek
05.15-05.30 Czech
05.30 05.45 Polish
05.45-06.00 English-Yugoslav
06.00-06.15 English-German
06.15-06.30 Hungarian
06.30-06.45 French-German (Austria)-Italian
06.45-07.00 English-Dutch
07.00-07.15 French
07.15-07.30 English
07.45-08 00 English
08.00-08.15 German
08.00-08.30 French
08.30-08.45 Luxembourgian (Sun.)
09.30-10.15 English (Sun.)
10.15-10.30 English
10.30-10.45 English
10.45-11.00 English
11.00-11.15 Bulgarian-Norwegian
11.15-11.30 English-Danish
11.30-11.45 English-French
11.45-12.00 English-French
12.00-12.15 English-German (Austria)
12.15-12.30 English-Greek
12.30-12.45 French
12.45-13.00 English-Rumanian
13.00-13.15 English-Czech-German
13.15-13.30 Dutch-Spanish-German
13.30-13.45 Polish-Italian-Portuguese
13.45-14.00 Serbo-Croat
15.00-15.15 Finnish (Sun.)
15.15-15.45 Finnish (Sun.)
15.45-16.00 English
16.00-16.15 German-Finnish-French
16.15-16.30 Finnish-Hungarian
16.30-16.45 Albanian
16.45-17.00 Russian-German-English
17.00-17.15 Russian-German-Flemish
17.15-17.30 French (Belgium) German (Austria)
17.30-17.45 Norwegian-Dutch-German (Austria)
17.45-18.00 German (Austria) Dutch-Norwegian
18.00-18.30 English-Bulgarian
18.30-19.00 Swedish-French-Greek-Polish-Italian
19.00-19.30 Danish-French-Rumanian-German
19.30-19.45 French-German-English-Hungarian
19.45-20.00 French-German-Russian-Serbo-Croat-Hungarian
20.00-20.15 French-German-Russian-Serbo Croat
20.15-20.30 French-German-Slovene
20.30 20.45 French-English-Portuguese-Czech-German
20.45-21.00 French-Portuguese-English-Czech-German
21.00-21.45 Spanish-German-English-Polish-Italian
21.45-22.00 English-Polish
22 00-22.15 English
22.15-22.30 English
22.30-23.00 English
23.00-23.15 French-German

EUROPEAN SERVICE UNDER LANGUAGES:

Albanian:
16.30-16.45 News and Progr. 31-19 m. b.

Bulgarian:
04.45-05.00 News and Progr. 267-51-31-25 m. b.
11.00 11.15 News and Progr. 31-25-19 m. b.
18.00-18.30 News and Progr. 41-31-19 m. b.

Czech Slovak:
05.15-05.30 News and Progr. 1796-456-41-31-25 m. b.
13.00-13.15 News and Progr. 31-25-19 m. b.
20.30-21.00 News and Progr. 1796-41-31-25-6-19 m. b.

Danish:
11.15-11.30 News and Press Survey 1796-41-31-25-19 m. b.
19.00-19.30 News and. Progr. 1796-41-31-25-19 m. b.

Dutch:
06.45-07.00 News 1796-267-49-41-31 m. b.
13.15-13.30 News and Progr. 1796-267-41-31-25-16-13 m. b.
17.30-18.00 News and Progr. 267-49-41-31 m. b.

English:
05.45-06.00 News and Press Review 1796-456-49-41-31 m. b.
07.15-07.30 News and Press Review 1796-26749-31 m. b.
08 30-09.15 Religious Service (Sun.) 1796-456 m.
09.15-09.30 Religious Service (Weekd.) 1796-456 m.
11.45-12.00 News, Press Survey 1796-456-49-41-31-25 m. b.
13.15-13.30 News and Progr. 267-41-31-25-16-11 m. b.
12.45-13.00 News and Press Survey 267-41-31-25 m. b.
17.30-18.00 News and Progr. 267-41-31-25 m. b.
18.00-18.30 London call. Eur. 1796-267-49-41-31-25-19 m. b.
20.45-21.00 News and Comments 41-31-25-19 m. b.
21.00-21.15 Press Review 1796-456-49-41-31 m. b.
21.15-21.45 London calling Europe 1796-456-49-41-31 m. b.
21.45-22.00 News and Despatch 267-41-31 m. b.

English by Radio:
04.45-05.00 1796-456 m.
06.00-06.15 267-49-41-31 m. b.
06.45-07.00 456-31 m. b.
07.45-08.00 1796-267-49-41-31- m. b.

10.45-11.00 1796-41-31-25-19 m. b.
11.30-11.45 1796-456-31-25-19 m. b.
12.00-12.15 267-41 m. b.
13.00-13.15 41-31-25-19 m. b.
15.45-16.00 41-31-25-19 m. b.
16.45-17.00 267-49-41-31 m. b.
17.15-17.30 456-31 m. b.
19.30-19.45 31-19 m. b.
20.30-20.45 41-31-25-19 m. b.

News Broadcasts for Listeners Learning English:
10.30-10.45 1796-41-31-25-19 m. b.
11.15-11.30 1796-456-41-31-25-19 m. b.
12.15-12.30 267-41-31-25-19 m. b.
17.00-17-15 1796-456-41-31-25 m. b.

Finnish:
15.00-15.45 Music Progr. (Sun.) 25-19 m.b.
16.00-16.30 News and Progr. 41-31-25-19 m. b.

Flemish (for Belgium):
17.00-17.15 Programme 267-49-41-31 m. b.

French (for Belgium):
17.15-17.30 Programme 267-49-41-31 m. b.

French:
06.30-06.45 News and reports 267-49-41-31 m. b.
07.00-07.15 News 267-49-41-31 m. b.
08.00-08.30 News and Press Review 267-49-41-31-25 m. b.
11.30-11.45 News and Progr. 267-41-31-25 m. b.
12.30-12.45 News 267-41-31-25 m. b.
16.00-16.15 English by Radio 267-49-31 m. b.
18.30-20.00 News and Progr. 267-49-41-31 m. b.
20.00-21.00 News and Progr. 1796-267-49-41-31 m. b.
23.00-23.15 News and Progr. 267-49-41 m. b.

German (for Austria):
06.30-06.45 News and Progr. 1796-456-49-41 m. b.
12.00-12.15 News and Progr. 456-41-31-25 m. b.
17.15-18.00 News and Progr. 1796-456-49-41-31 m. b.

German:
05.00-05.15 News 1796-456-49-41 m. b.
06.00-06.15 News, English Lesson 1796-456-49-41 m. b.
08.00-08.15 News and Talk 1796-456-49-41-31 m. b.
13.00-13.30 News and Progr. 1796-456-41-31-25 m. b.
16.00-16.15 News, Press Review 1796-456-49-41-31 m. b.
16.45-17.00 Programme 1796-456-49-41-31 m. b.
17.00-17.15 News and Progr. 1796-456-49-41-31 m. b.
19.00-19.45 News, Commentary and Talk 456-49-41-31 m. b.
19.45-20.00 Progr. 456-49-41-31 m. b.
20.00-20.15 Progr. 456-49-41-31 m. b.
21.00-21.30 News, English Lesson 456-49-41-31 m. b.
23.00-23.15 News 1796-456-49-41-31 m. b.

Greek:
05.00-05.15 News and Progr. 267-41-31-25 m. b.
12.15-12.30 News and Progr. 31-25-19 m. b.
18.30-19.30 News and Progr. 31-19 m. b.

Hungarian:
06.15-06.30 News and Progr. 1796-456-49-41- m. b.
16.15-16.30 News and Progr. 41-31-25-19 m. b.
19.30-20.00 News and Progr. 41-31-25-19 m. b.

Italian:
06.30-06.45 News and Prog. 267-41-31-25 m. b.
13.30-13.45 News 31-25-19 m. b.
18.30-19.00 News and Prog. 41-31-25-19 m. b.
21.15-21-45 News and Prog. 41-31-25-19 m. b.

Luxembourgian:
08.30-08.45 Progr. (Sun.) 267-41-31 m. b.

Norwegian:
11.00-11.15 News 1796-41-31-25-19 m. b.
17.30-18.00 News and Progr. 1796-41-31-25-19 m. b.

Polish:
05.30-05.45 News 1796-456-49-41 m. b.
13.30-13.45 News and Progr. 1796-456-41-31-25 m. b.
18.30-19.00 News and Progr. 456-49-41-31 m. b.
21.30-22.00 News and Progr. 456-49-41-31 m. b.

Portuguese:
12.30-12.45 News 41-31-25-19-13 m. b.
20.30-21.00 News and Progr. 41-31-25-19 m. b.

Rumanian:
04.30-04.45 News and Progr. 267-41-31-25 m. b.
12.45-13.00 News 31-25-19 m. b.
19.00-19.30 News and Progr. 41-31-19 m. b.

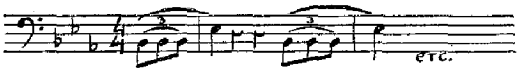
Russian:
04.30-04.45 News and Progr. 49-41-31-25 m. b.
16.45-17.15 News and Progr. 41-31-25-19 m. b.
19.45-20.15 News and Progr. 41-31-25-19 m. b.

Serbo Croat:
05.45-06.00 News and Progr. 267-41-31-25 m. b.
13.45-14.00 News and Progr. 31-25-19 m. b.
19.45-20.15 News and Progr. 31-19 m. b.
20.15-20.30 News and Progr. 31-19 m. b.

Spanish:
13.15-13.30 News and Progr. 41-31-25-19 m. b.
21.00-21.45 News and Progr. 41-31-25-19 m. b.

Swedish:
18.30-19.00 News and Progr. 1796-41-31-25-19 m. b.

Interval Signal for European Service: Morse Signal "V" (V for Victory) played on Timpani (i. e. . . . —)



America Calling Europe.
A. C. E. Periods in B. B. C. European Service (incorporated in appropriate B. B. C. Programme).
16.15-16.45 Polish on 1796, 456, 40.98, 31.17, 25.15 m
16.15-16.45 English on 267, 41.61, 31.88, 25.49 m
16.45-17.00 Austrian on 30.96, 25.64, 19.66 m
17.00-17.30 English on 30.96, 25.64, 19.66 m
17.30-18.00 Italian on 41.32, 31.50, 25.30, 19.42 m
17.45-18.00 Yugoslav. on 30.96, 19.61 m
18.00-19.00 Russian on 41.61, 30.96, 25.64, 25.49 m
19.00-19.15 English on 41.61, 30.96, 25.49 m
19.00-19.30 Bulgarian on 30.53, 25.64 m
19.00-19.30 Czech. on 31.50, 25.30 m
19.30-20.00 Greek 25.64, 19.66 m
19.30-20.00 Rumanian 41.61, 30.53 m
20.00-20.30 Hungarian 41.32, 31.50, 25.30, 19.42 m
20.00-20.30 Italian on 31.50, 25.30 m
20.30-21.00 Polish 48.78, 41.75, 30.96 m
20.30-21.00 Yugoslav 30.53, 25.64 m
21.00-21.30 Russian 48.78, 41.67, 30.93 m
21.30-21.45 Austrian 41.61, 31.12 m
21.45-22.00 Hungarian 48.78, 41.67, 31.12 m
22.00-22.30 Czech 48.78, 41.61, 31.12 m
22.00-22.30 French on 267, 48.54, 41.61, 31.88 m
22.00-22.30 Spanish on 41.49, 31.01 m

B. B. C. Publications:
Domestic: "The Times" and "The Listener".
Overseas: "London calling".
Europe: "London calling Europe". — "Ici Londres". — "Hier spricht London".

B. B. C.s OVERSEAS SERVICE

Frequencies and wavelengths:

9510 kc/s	31.55 m	9825 kc/s	30.53 m
9580 kc/s	31.32 m	11700 kc/s	25.64 m
9600 kc/s	31.25 m	11750 kc/s	25.53 m

11800 kc/s	25.42 m	17810 kc/s	16.84 m
12095 kc/s	24.80 m	18025 kc/s	16.64 m
15110 kc/s	19.85 m	21470 kc/s	13.97 m
15140 kc/s	19.82 m	21530 kc/s	13.93 m
15180 kc/s	19.76 m	21550 kc/s	13.92 m
15260 kc/s	19.66 m	21675 kc/s	13.84 m
15310 kc/s	19.60 m	21710 kc/s	13.82 m
17715 kc/s	16.99 m	21750 kc/s	13.79 m
17790 kc/s	16.86 m	26100 kc/s	11.49 m

GENERAL OVERSEAS SERVICE

The General Overseas Service which runs continuously throughout the twenty-four hours, and can be heard at suitable times all over the world, is addressed to all who regard the United Kingdom as home, wherever they may be. All programmes are in English.

Daily Programmes:

02.00 Programme Preview
03.00 News
03.10 From The Editorials
04.00 News
04.10 Programme Preview
04.15 News at Dictation Speed
06.00 News
06.10 Daily Service (exc. Sun.)
07.00 News
07.10 Home News
08.00 News
08.10 News Analysis (exc. Sun. and Mon. when Programme corrections)
11.00 News
11.10 Home News
12.00 From The Editorials
12.10 Programme Preview
13.00 News
13.10 Home News
14.00 Radio Newsreel
15.15 Programme Preview (exc. Sat.)
16.00 News
16.10 News Analysis
17.15 Radio Newsreel
18.00 News
18.10 Home News
20.00 News
20.10 Daily Service (exc. Sun.)
21.15 Programme Preview (Sun. only)
21.30 Programme Preview (exc. Sun.)
23.00 News
23.10 News Analysis
00.00 Radio Newsreel
01.00 News
01.10 Home News

The times at which the General Overseas Service is available in various parts of the world and the appropriate wavelengths are:

Australia:
06.00-12.00 on 16, 13 m. b.

New Zealand:
08.00-12.00 on 19, 16 m. b.

Far East (Japan, North China, North West Pacific):
08.00-14.15 on 19, 16 m. b.

India, Pakistan, Ceylon:
01.00-17.00
on 31, 25, 19, 16, 13 m. b.

Burma, Malaya, S. China, S. East Asia:
04.00-17.00 on 25, 19, 16, 13 m. b.

Iraq, Persia:
04.00-08.00 on 25, 19, 13 m. b.
10.00-12.15 on 13 m. b.
15.15-19.00 on 19, 13 m. b.

Palestine, Turkey:
04.00-21.00
on 25, 19, 16, 13 m. b.

Egypt, East Africa:
04.00-21.00
on 31, 19, 16, 13, 11 m. b.

Italy, Malta, Greece, Mediterranean:
04.00-21.00 on 49, 31, 25, 19 m. b.

Austria, North Italy:
05.30-10.00 49, 31, 25 m. b.
13.30-21.00 on 31, 25, 19 m. b.

North Africa:
04.00-09.00 on 31, 25 m. b.
16.00-20.15 on 31, 25, 16 m. b.

Central and South Africa:
04.00-09.00 on 31, 16, 13 m. b.
10.00-13.15 on 11 m. b.
14.15-20.15
on 31, 25, 16, 13 m. b.

West Africa:
06.00-09.00 on 25, 16, 13 m. b.
10.00-13.15 on 11 m. b.
14.15-20.15 on 16, 13 m. b.
21.00-22.45 on 25 m. b.

Gibraltar, Mediterranean:
05.30-09.00 on 31, 25 m. b.
10.00-22.45 on 31, 25, 19 m. b.

South America (South of Amazon):
11.00-11.15 on 13 m. b.
16.00-03.15
on 31, 25, 19, 13 m. b.

West Indies, Central America, South America (North of Amazon):
17.15-23.15 on 25, 19, 16 m. b.
23.45-03.15 on 31, 25, 19 m. b.

Canada, U. S. A., Mexico:
11.00-13.00 on 25 m. b.
21.15-23.00 on 31, 25 m. b.
23.15-23.45 on 31, 25 m. b.
00.00-03.15 on 31, 25 m. b.

North America (West Coast):
21.15-23.00 on 19 m. b.
23.15-23.45 on 19m. b.
00.00-03.15 on 31, 19 m.b.

The metre bands as shown above do not cover the whole of the transmission time of the services, but each service is audible in one of the metre bands shown throughout its overall time.

Interval Signal for General Overseas Service: Bow Bells.

REGIONAL PROGRAMMES

For the Pacific Area: In English. Directed to Australia, New Zealand.
06.00-07.45 on 31, 25, 19 m. b.

06.00 News
06.10 Programme Preview
06.30 Radio Newsreel
07.30 From The Editorials
07.35 Programme Preview

Far Eastern Service: In English, Dutch, French, and Far Eastern Languages. Directed to Burma, Malaya, South East Asia, China, Japan.
11.00-14.15 on 25, 19, 16, 13 m. b.
13.30-14.00 on 25 m. b. (for N. & S. China only)

11.00 News in Japanese
11.30 News in Cantonese
11.45 News in English
12.10 English by Radio (exc. Sun., and Tues.)
12.15 News in French
12.30 News in Malay
12.45 News in Siamese
13.00 News in English
13.15 News in Dutch
13.30 News in Kuoyü
14.00 News in Burmese

Eastern Service. For India, Pakistan and Ceylon: In English and Eastern Languages.
13.30-15.30 on 16, 13 m. b.
13.30 Marathi Radio Magazine (Wed. only); Bengali Radio Magazine (Sat. only)
14.00 News in Hindustani
14.15 English by Radio (Sun. only); London Letter in Tamil (Mon. and Thurs. only); London Letter in Sinhalese (Tues. and Fri. only).

Near Eastern Services: In Arabic, Persian and Turkish. Directed to North Africa, Near and Middle East.
04.30-05.15, 15.45-18.15, 19.30-20.30, 21.00-21.15
on 31, 25, 19 m. b.
Arabic: 04.45-05.15, 17.00-18.15, 19.30-20.30
Persian: 15.45-16.30
Turkish: 04.30-04.45, 16.30-17.00, 21.00-21.15

Colonial Services: In English and Greek for Cyprus, and Maltese.
1730-17.45 on 19 m. b.
For West Africa: 20.15-21.00 on 16 m. b.
For West Indies: 23.15-23.45 on 25, 19 m. b.

For Central and South Africa and Rhodesia: In English and Afrikaans:
15.30-15.45 on 16 m. b.
18.45-19.15 on 25, 19 m. b.

Latin-American Service in Portuguese: Directed to Central America, South Caribbean Area, South America (N. and S. of Amazon).
22.00-01.30; on 25, 19 m. b.

22.00 Programme Summary
22.15 News
00.00 News
01.00 News Summary
01.25 Programme Summary

Latin-American Service in Spanish: Directed to Central America, South Caribbean Area, S. America (N. and S. of Amazon) and Mexico.

22.00 News Summary	02.00 News
23.00 News Summary	03.15 News
00.00 News	

North American Service: In English and French for Canada. Directed to Canada, Newfoundland, U. S. A., Mexico.
13.00-14.00 and 14.15-17.15 on 13 m. b.
18.00-21.15 on 25, 19, 13 m. b
23.00-23.15 and 23.45-00.00 on 31, 25 m. b.

For the West Coast Only:
23.00-23.15 and 23.45-00.00 on 19 m. b.

13.00 News	18.00 Programme Summary
13.10 From the Editorials	18.15 Talks in French (exc. Sun. and Sat.)
14.15 Programme Summary	20.00 News Analysis (exc. Sun. and Sat.)
16.00 News	21.00 News
16.10 News Analysis	23 00 Radio Newsreel
16.30 Radio Newsreel	23.45 News
17.00 News	23.55 News Analysis
17.10 News Analysis (exc. Sun.)	

Interval Signal for North American Service: The notes "B. B. C. played on Novachord".

Announcement: *Home Programme:* "This is the B. B. C., Home Service, Light Programme or Third Programme". *European Service:* "This is London calling in the European Service of the B. B. C.". In French: "Ici Londres". In German: "Hier ist England". In Dutch: "Hier is London". In Italian: "La Voce di Londra".

B. B. C.'s Overseas Services: "This is London calling in the General Overseas Service of the B. B. C. . . ." "You are listening to the General Overseas service of the B. B. C. from London".
"This is London calling in the Pacific, African, North American. . . etc. . . . Service of the B. B. C.".

Interval-signal: Shown for each of the Services: Every hour on the hour: Big-Ben.

Message to Listeners: "The B. B. C. London welcomes letters from its listeners throughout the world, with comments on the substance and reception of its various broadcasts. Any such letters addressed to the B. B. C., London W 1, will receive the most careful attention".

GREENLAND

Normal Clock Time — G. M. T. minus 3 hours.

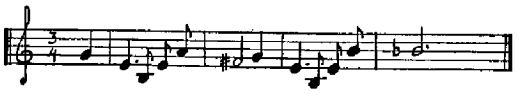
Address: Radiostation Godthaab, Greenland.

Station: Godthaab OX1
5942 kc/s 50.49 m 1 kW

Daily Programmes from 21.30-22.45.

Weather report — News and Ship Positions in Danish and Eskimo. Music.
Announcement in Danish: "God Aften, Her Grønlands Radio."

Interval-Signal: Chimes and first movement of six bars, played twice, of the Funeral March by Norman Andersen which was composed for Kjell Abel's play "Silkeborg".



GREECE

Normal Clock Time — G. M. T. plus 2 hours.

Address: Ethnikon Idryma Radiophonias (National Broadcasting Institute), 4 Righillis Street — Athens.
Leading Personalities: General Manager: Mr. D. K. Svolopoulus. Technical Manager: Mr. B. Aslanidis. Chief of Music: Mr. G. Georgiadis.

Stations:

Radio Athens	601 kc/s	499.2 m	15 kW*
Radio Salonika	804 kc/s	373.1 m	2 kW**
Radio Volos	1330 kc/s	225 m	0,25 kW
Radio Athens	7300 kc/s	41.10 m	7,5 kW
	9607 kc/s	31.23 m	7.5 kW
	15345 kc/s	19.53 m	7,5 kW

* to be increased to 70 kW. ** Relay and Regional

Daily Programmes on 499 m:
Weekdays: 04.15-07.30, 10.00-13.00 and 15.30-22.45.
Sundays: 04.15-06.00, 09.00-13.00 and 15.00-22.45.

05.15 News	17.15 News, Advertisements
07.05 (Weekd.) Folk Music	17.45 Program in French
07.25 News	18.15 News
10.10 Spec. Transmission for North Greece	19.00 Spec. Transmission for North Greece (by D. K. Svolopoulus)
11.00 News	
11.30 Relay from Paris	19.30 Relay from USA
12.15 Relay from B. B. C.	20.00 News
12.45 News	21.15 News
16.55 Forces Programme	22.30 News at dictation speed

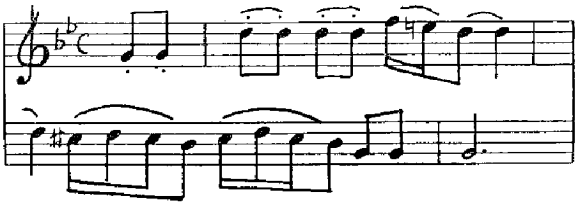
Daily Programmes on 373 m:
Weekdays: 05.00-06.30, 11.00-13.00 and 16.00-22.00
Sundays: 05.00-06.30, 08.45-13.00 and 16.00-22.00

Highlights of Programmes:
Sundays 06.00 High Mass from the Cathedral, 09.00 Symphony Concert, 18.25 Opera, Music, 19.30 Feature Progr.
Mondays: 20.15-21.15 Opera or Operette
Tuesdays: 20.15 Greek Composers
21.30 Symphony Concert
Thursdays: 20.15 Symphony Concert
Fridays: 21.30-22.30 Opera

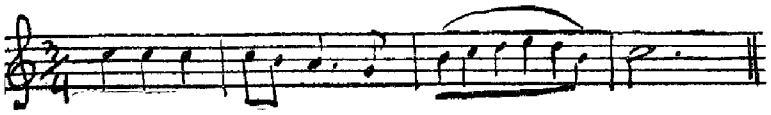
Daily Programmes on short-wave:

On 48.56 m	17.50 News in Russian
05.15 Relay Home Progr.	18.00 News in Rumanian
On 31.23 m	18.10 News in Yugoslav
10.00 Relay Home Progr.	18.20 News in Bulgarian
11.00 Relay Home Progr.	18.30 News in Albanian
11.45 Relay Home Progr.	18.45 Interval
12.15 For the Greeks abroad (Sun. and Thursd.)	19.00 Relay Home Progr.
	20.00 Relay Home Progr.
12.30 Relay Home Progr.	21.15-21.30 News in Greek
On 41.10 m	*On 19.53 m Transmission for USA*
16.00 News at dictation speed	22.30 News in English
16.30 News in English	22.40 News in Greek
16.45 News in French	22.50 (Thursd. 23.45) Greek Music and Songs
17.00 News in Turkish	
17.10 Interval	

Announcement: "Edho Athinai" and "Edho Thessaloniki".
Interval-signal: Radio Athen on medium-wave: "Tsopanakos" — a folk Song played on flute.



Radio Athen on short-wave: "Kato stou valtou" (Folk dance played by clarino).



Message to Listeners: Reports and critics of our programmes are welcomed and answered by letters.

HOLLAND

Normal Clock Time — G. M. T. plus 1 hour.

Address: Nederlandsche Radio Unie, The Dutch Radio Union, Postbox 150, Hilversum.

The Dutch Programmes for Home are provided by the following broadcasting societies:

A. V. R. O.: Algemeene Vereeniging Radio Omroep, Headoffice: Keizersgracht 107, Amsterdam. Studio: 's Gravelandseweg 52, Hilversum. — Chairman: Mr. G. de Clercq, Secretary-Treasurer: Mr. J. Corver, Managing-Director: Mr. W. Vogt.

K. R. O.: Katholiekc Radio Omroep, Emmastraut 52, Hilversum. — Chairman: Prof. Dr. J. B. Kors O. P., Secretary: Mr. L. P. N. A. Bouwman, Treasurer: Mr. C. Burger, Managing-Director: Mr. P. A. M. Speet.

N. C. R. V.: Nederlandsche Christelijke Radio Vereeniging, Suzannapark 8, Hilversum. — Chairman: Mr. A. B. Roosjen, LLD, — Secretary-Treasurer: Mr. C. A. Keuning, Member: Mr. D. Pereboom, Managing-Director: Mr. K. van Dijk.

V. A. R. A.: Vereeniging van Arbeiders Radio Amateurs, Heuvellaan 35, Hilversum. — Chairman: Mr. K. de Jonge, Secretary-Treasurer: Mr. J. W. Lebon, Programme-Secretary: Mr. J. B. Brockz.

V. P. R. O.: Vrijzinnig Protestantsche Radio Omroep, s' Gravelandseweg 65, Hilversum. — Chairman: Rev. Miss Dr. N. A. Bruining, Secretary-Treasurer: Mr. G. J. Ligthart, 2ncl. Secretary: Prof. Dr. C. W. Mönnich, Managing-Director: Rev. E. D. Spelberg.

Central Address for the four principal broadcasting societies: Centraal Bureau voor den Omroep in Nederland, Postbox 52, Hilversum.

Leading Personalities of De Nederlandsche Radio Unie: Chairman: Prof. Dr. J. B. Kors O. P., Secretary: Mr. J. W. Lebon, Treasurer Mr. C. de Clercq. Treasurer Members: Mr. J. B. Broeksz, Miss Dr. N. A. Bruining, Mr. A. B. Roosjen, LLD, Mr. K. van Dijk, Mr. P. A. Speet and Mr. W. Vogt.

Stations: *Long and Medium Waves.*

Lopik I	995 kc/s	301.5 m	100 kW	Hilversum I
Lopik II	722 kc/s	415.5 m	60 kW	Hilversum II
Kootwijk	160 kc/s	1875 m	10 kW	relay H'sum II
Groningen	1222 kc/s	245 m	3,5 kW	*
Maastricht	1222 kc/s	245 m	2 kW	*

*) The regional transmitters give an own programme during: 18.15-19.30; during the rest of the time between 17.00-24.00 they relay the programme Hilversum II.

Short Waves: Huizen.

PCJ:	15220 kc/s	19.71 m	40 kW
	9590 kc/s	31.28 m	40 kW
PHI:	17770 kc/s	16.88 m	5 kW
	11730 kc/s	25.57 m	5 kW
	21480 kc/s	13.96 m	15 kW
PGD:	6025 kc/s	49.79 m	5 kW

HOME PROGRAMMES

Daily Programmes for Hilversum I: (1. and 3. quarter) and **Hilversum II:** (2. and 4. quarter)

Weekdays:

(a) K. R. O.: Tuesday, Fridays (once in a fortnight) and Saturdays: 06.00-23.00; Thursdays: 06.00-09.00 and 11.00-13.00.

(b) N. C. R. V.: Mondays, Wednesdays and Fridays (once in a fortnight): 06.00-23.00; Thursdays: 09.00-11.00 and 13.00-23.00.

Sundays:

(a) K. R. O.: 07.00-11.15 (once in a fortnight): 11.15-16.00 and 18.45-23.00.

(b) N. C. R. V.: 08.30-11.15 (once in a fortnight) and 16.00-18.45.

Weekdays:

06.00 News
06.15 (a) Music, (b) Gymnastics
06.30 (b) Records
06.45 (a) Morning Prayer and Liturgical Calender (b) Meditation
07.00 News
07.15 (a) Light Music, (b) Religious Music
08.35 (a) Music
09.30 (b) Religious Service
11.00 (a) Angelus
11.03 (a) Music
12.00 News
13.00 (a) Music and Play
17.30 For the Forces
18.00 News
19.00 News
19.05 (a) Political Talk, (b) Progr. Prologue
19.12 (a) Music or Play
21.30 (b) News
21.37 (a) Topics
21.45 (a) Evening Prayer and Liturgical Calender, (b) Meditation
22.00 (a) News
22.15 (a) Music

Daily Programmes for Hilversum I: (2. and 4. quarter) and **Hilversum II:** (1. and 3. quarter)

Weekdays:

(c) V. A. R. A.: Mondays (once in a fortnight): 06.00-23.00; Wednesdays and Saturdays: 06.00-09.00, 09.20-18.30 and 19.00-23; Fridays: 06.00-09.00, 09.20-11.00, 15.00-18.30, 20.00-21.40 and 22.00-23.00.

(d) A. V. R. O.: Mondays (once in a fortnight): 06.00-23.00; Tuesdays and Thursdays: 06.00-06.50 and 07.00-23.00; Fridays: 11.00-15.00.

(e) V. P. R. O.: Mondays (once in a fortnight): 09.00-09.20; Tuesdays and Thursdays: 06.50-07.00; Wednesdays and Saturdays: 09.00-09.20, 18.30-19.00; Fridays: 09.00-09.20, 18.30-20.00 and 21.40-22.00.

Sundays:

(c) V. A. R. A. 07.00-09.00, 09.00-09.30 (once in a fortnight): 09.30-11.00, 16.00-16.30 (once in a fortnight) and 16.30-1900.

(d) A. V. R. O. 11.00-16.00 and 19.00-23.00.

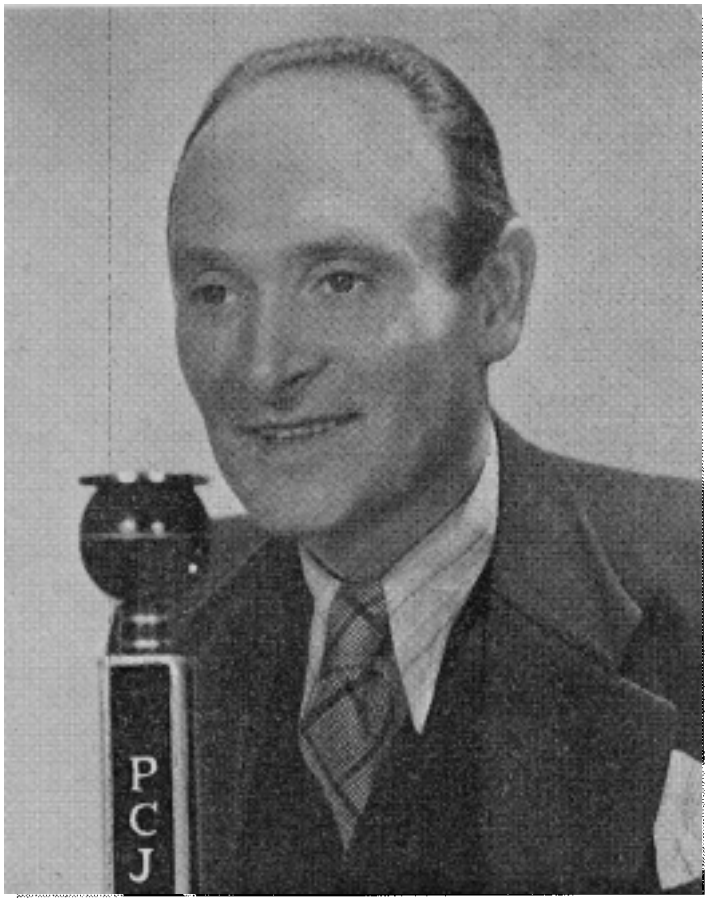
(e) V. P. R. O. (once in a fortnight): 09.00-09.30 and 16.00-16.30.

Weekdays:

06.00 News
06.15 Gymnastics
06.30 Records
06.50 (e) Meditation
07.00 News
07.15 (c) Socialistic Song (d) Music
08.15 (d) TheDaily Service
09.00 (e) Morning Service
11.00 Light Music
12.00 News
17.00 News
19.00 News
19.05 Topics
22.00 News
22.15 Music

RADIO NEDERLAND — WORLD PROGRAMME PCJ

Address: R. Nederland-Wereldomroep PCJ (Shortwave Station), 1 Bothalaan, Hilversum, including the *"Happy Station"* PCJ, Postbox 137, Hilversum.



Edw. Starts, who presents and produce the broadcasts from "The Happy Station".

Leading Personalities of Wereldomroep PCJ
General Manager: Mr. H. J. van den Broek. — General Programme Director Mr. G. Sluizer. Head of International Programme Service: Mr. F. Thors. Head of Technical Dept: Mr. E. van Eldik. — For Publicity and Information: Mr. Henk Koops jr.

DAILY PROGRAMMES *to Europe and Africa* on *25.57, 31.28, 49.79 m.*

English: 17.30-18.10 (exc. Sun.)
17.30 News — 17.40 Topicals — 17.50 Music from Holland — 18.10 (Tuesd.) Cultural Review or Women's Programme; and Saturdays: Window on Holland.

Dutch: 18.30 to 21.00 (Sun. 09.00 Religious Service)

17.30 Children's Progr.	19.30 Concertgebouw Orch. (Sund.)
18.32 News	19.45 Music
19.00 Music	20.26 Light Music
19.30 News, Press Review (Weekd.)	20.55 News

"The Happy Station": 21.00-22.30 (Sun. Wedn.) Presented and produced by Edw. Startz.

Highlights of Programmes for International Listeners:
Sundays: 18.45 Light Music or Choir and 19.30 Concertgebouw Orchestra.
Tuesdays: 19.00 Metropole Orchestra.
Thursdays: 19.00 Wellknown Dutch Radio Orchestras.
Fridays: 19.45 Soloists or Chamber Music.

Special Programmes for Dutch Listeners:
Sundays: 09.00 Religious Service. 17.30 Children's Hour. 20.31 Sportuitslagen (Football scores).
Tuesdays: 18.50 Talk by "De Rotterdammer" or "Letters from Listeners".
Wednesdays: 19.45 "PCJ roept het Schip van de Week" (Family Broadcast for the Merchant Navy)
Fridays 18.50 Buitenlands Weekoverzicht (Weekly International Review).
Saturdays: 18.50 Reportage of Muziek.

DAILY PROGRAMMES to America and West Indies on *25.57, 31.28* and *49.79 m.*

Spanish (for South America) 22.30-23.10 (Weekd.)

22.30 News — 22.40 Topical — 22.50 Music from Holland 23.10 (Tuesd.) Cultural Review or Women's Programme (Saturd.) "Window on Holland".

Dutch: 23.30-02.00 (Sun. 22.45 Children's Progr.) 23.32 News — 00.30 Internat. News and West Indian Review — 01.20 Press Review — 01.30 Music.

Spanish (for Central America and the Antillas)
02.00-02.30 (Weekd. only)
02.00 News — 02.10 Topical — 02.20 Music from Holland
English: 02.30-03.10 (Weekd.) (for USA and Canada on 31.28 m)
02.30 News — 02.40 Topical — 02.50 Music from Holland 03.10 (Tuesd.) Cultural Review or Women's Programme. (Saturd.) "Window on Holland".

"The Happy Station": 03.00-04.30 (Sun. and Wedn.)

Highlights of Programmes for International Listeners:
Sundays: 00.30 Concertgebouw Orchestra
Mondays: 00.00 Opera or Light Opera Music.
Tuesdays: 00.00 Metropole Orchestra
Wednesdays: 00.00 Concert or Dutch songs
Thursdays: 00.05 Radio Orchestra
Fridays: 00.50 Dutch Soloists and/or Orchestras
Saturdays: 00.50 Popular Music

Special Programmes for Dutch Listeners:
Sundays: 22.45 Children's Hour
02.00 Sportuitslagen (Football Scores)
Mondays: 23.50 Sports Talk
Tuesdays: 23.50 "De Rotterdammer" of "Brieven van luisteraars"
Wednesdays: 00.50 (2nd. 4th and 5th Wedn. each month) "PCJ roept het schip van de week" (Family Broadcast for the Merchant Navy)
Fridays: 23.50 Buitenlands Weekoverzicht (Weekly International. Review).
00.00 Cult. mandoverzicht (Cultural Review 1st. Frid., each month), Streekprogramme (Regional Broadcast 3rd Frid. each month)
01.46 Financecon. rubrick
Saturdays: 23.50 Populaire muziek
00.00 Populaire muziek

DAILY PROGRAMMES *to East and Far East* (Indonesia) on 13.96, 16.88, 19.71 and 49.79 m.

English: 10.00-10.40 *(Weekd. only).*
10.00 News — 10.40 Topical — 10.20 Music from Holland 10.40 (Tuesd.) Cultural Review or Women's Programme (Saturd.) "Window on Holland".

Dutch: 11.00-15.00.
11.00 Forces Programme
12.02 News
13.00 International News and Press Review
13.15 (ex. Wedn.) Music
13.30 (only Sund.) Concertgebouw Orchestra

Holland Happy Station Edward Startz

14.15-15.00 Programme for Indonesian Listeners in Bahasa Indonesia

"The Happy Station": 15.30-17.00 (Sun., Wedn.) and from 08.30-10.00 on Tuesd.

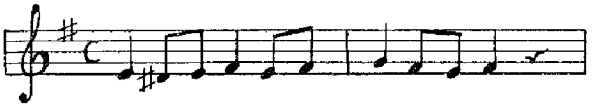
Highlights of Programmes for International Listeners:
Sundays: 13.30 Concertgebouw Orchestra
Mondays: 12.30 Opera or Light Opera Music
Tuesdays: 12.30 Metropole Orchestra
Thursdays: 12.30 Radio Orchestra
Fridays: 13.15 Dutch Soloists and/or Orchestras

Special Programmes for Dutch Listeners:
Sundays: 09.00 Religious Service
10.15 Children's Programme
15.20 Sportuitslagen (Football Scores)
Mondays: 09.30 Zending of missie (Mission) Altern. 1st and 2nd Mond. each month for R. C. and Prot. ... .
Tuesdays: 12.20 "'De Rotterdammer" or "Brieven van Luisteraars" (Speech by "De Rotterdammer" or "To Letters from Listeners")
Wednesdays: 13.15 PCJ roept het schip van de week (Family Broadcast for the Merchant Navy)
Fridays: 12.30 Streekprogramma 3de Vrijd. v. d. maand): Regional Broadcast (3rd Friday each month)
13.46 Financieel-econ. rubriek (Financial-Econ. Review)
Saturdays: 12.30 Cabaret Programme.

Announcement: An old Dutch folk-song called: "In naam van Oranje". "Hier Radio Nederland via de kortegolfzender PCJ met onze dagelijkse uitzending bestemd voor alle land en rijksgenoten buiten het vaderland. Goeden morgen, goeden middag en goeden avond Nederlanders, waar ook ter wereld.« (Here Radio Netherlands via short wave transmitter PCJ, with our daily broadcast for all Dutch Nationals abroad. Good morning, good afternoon and good night Netherlanders, wherever you are).

News in English: An old Dutch folk-song called: ««Wie gaat mee overzee". "This is the international programme service of station PCJ Hilversum Holland, bringing you "News of the Netherlands".

General Interval-Signal: Old Dutch folk-song called: "Merk toch hoe sterck" played on Carillon or Celesta. For all frequencies.



Message to Listeners of "Radio Nederland Wereldomroep": Reports on the listening value and the technical quality of our programmes will be welcome and should be addressed to: PCJ, P. O. Box 137, Hilversum, Holland." Reports answered by QSL-card.

HUNGARY

Normal Clock Time. — G. M. T. plus 1 hour.

Address: Head of Section of Foreign Relations, Magyar Központi Hiradó Rt., VIII Bródy Sándor-Utca 5-7, Budapest.

Leading Personalities: President: Sándor Barcs. Vice-President: Pál Justus. Programme Director: Gyula Schöpflin. Head of Literary Section, Director: Emil Kolozsvári Grandpierre. Director of Music: Tibor Polgár. Head of Foreign Relations Section: Lajos Barta jr. Head of Music Section: György Enyedi. Head of Actualities Section: János Vajna. Chief-Engineer: Béla Tomcsányi.

Stations:

Budapest I	546 kc/s	549.5 m	50 kW	(¼-49 135 kW)
Budapest II	1040 kc/s	288.5 m	8 kW	(⅓-49 50 kW)
Nyiregyhaza	1122 kc/s	267.4 m	0,6 kW	Relay Bp. I II
Magyarovar	1321 kc/s	227.1 m	0,6 kW	Relay Bp. I II
Miskolc	1438 kc/s	208.8 m	1,25 kW	Relay Bp. I II
Pecs	1465 kc/s	204.8 m	1,25 kW	Relay Bp. I II

Daily Programmes from Budapest I (National):
Weekdays: 04.30-09.10 and 11.00-23.30
Sundays: 06.00-23.30.

Weekdays:

04.30 Records	16.50 News in Russian
05.30 Farmers' Radio	18.30 News, Progr. Preview
05.45 Excercise	19.00 News, Sport
06.00 News, Progr. Preview	19.20 News in German
06.20 Records	19.35 Concert
07.15 Recorded Music	21.00 News, Progr. Preview
08.00 Music	21.25 News in Serbian
09.00 News	21.30 Serious Music
11.00 News, Music	22.20 Music
12.00 Newsreel, Music	23.00 News
13.00 News, Music	23.10 News in French
13.30 Music	23.20 News in English
13.30 Music, Progr. Preview	21.25 News in Serbian
15.00 Feature	23.00 News
16.00 News	23.30 News in Esperanto (Mo., Wedn., Fri.)
16.10 Prisoner of War Research	

Highlights of Programmes:

Tzigane Music (live with vocalists): Sunday at 15.00.
Newsreel of the Danube Valley: Thursdays at 17.00. Political and cultural review on the surrounding countries.

Hungarian Parnassus: Saturdays at 17.00. Literary Magazine, Contemporary Hungarian literature and music.

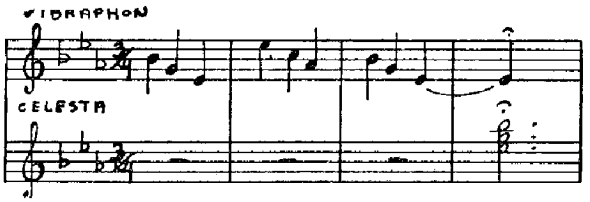
"Crazy Steve", Variety Show: Saturdays at 19.40.

Daily Programmes from Budapest II (National):
Weekdays: 16.00-22.00.
Sundays: 08.00-12.00 and 16.00-22.00.
After March 1949, Budapest II will broadcast an all-day programme.

Highlights of Programmes:
Budapest I:
Radio University (Weekd.) at 19.30.
Radio Drama: Sundays at 18.00.

Announcement: Budapest I: "Radio Budapest egy."
Budapest II: "Radio Budapest ketto."

Interval-signal: Budapest I:



Message to Listeners: Letters and reports on the reception and listening value of our broadcasts will be most welcome and will be answered either by letter or by verification card.

ICELAND

Normal Clock Time — G. M. T. minus 1 hour.

Addres: Iceland State Broadcast Service, (Rikisutvarpid), Reykjavik.

Leading Personalities: Director General: Mr. Jonas Thorbergsson, Chief Engineer: Mr. Gunnlaugur Briem. Chairman of Program Council: Mr. Jacob Benediktsson.

Stations:

Reykjavik	TFU	271 kc/s	1107 m	100 kW	
Eidar	TFE	615 kc/s	487.8 m	1 kW	Relay TFU
Reykjavik	TFJ	12175 kc/s	24.64 m	7 kW	

Daily Programmes from 09.30-10.20, 13.10-14.15, 16.30-17.30, 19.25-24.00.

News at 09.30, 13.30, 16.30, 21.00,23.00.
Shortwave transmissions to Icelanders abroad every Sunday at 16.15-16.45.

Announcement: "Utvarp Reykjavik".

Message to Listeners: Reports are answered with special QSL-card. Return postage should be enclosed.

ITALY

Normal Clock Time — G. M. T. plus 1 hour.

Address Radio Italiana — RA. I. Presidenza — Roma — Via Botteghe Oscure, 54 —
Direzione Generale — Torino — Via Arsenale, 21.
Direzione Generale — Roma — Via Botteghe Oscure, 54.

Leading Personalities: President of the Radio Italiana RAI Rome: On Giuseppe Spataro, M. of P. Director-General Rome: Rag. Salvino Sernesi. Joint General Manager. Turin. Dr. Marcello Bernardi. General Manager Programmes: Mr. Giulio Razzi. General Manager Programmes Radio News: Dr. Antonio Piccone Stella.

Stations: Red Network (Rete Rossa)

Ancona	1429 kc/s	209.9 m	5 kW
Bari I	1059 kc/s	283.3 m	20 kW
Bologna I	1303 kc/s	230.2 m	50 kW
Catania	1104 kc/s	271.7 m	5 kW
Florence II	1104 kc/s	271.7 m	5 kW
Genoa I	1357 kc/s	221.1 m	10 kW
Milan II	1357 kc/s	221.1 m	10 kW
Naples I	1312 kc/s	228.7 m	100 kW
Rome I	713 kc/s	420.8 m	100 kW
Palermo	565 kc/s	531.0 m	10 kW
San Remo	1348 kc/s	222.6 m	5 kW
Turin II	1357 kc/s	221.1 m	20 kW
Venice II	1492 kc/s	200.1 m	5 kW

Stations: Blue Network (Rete Azzurra)

Bari II	1348 kc/s	222.6 m	1 kW
Bologna II	1068 kc/s	280.9 m	1 kW
Bolzano	536 kc/s	559.7 m	20 kW
Florence I	610 kc/s	491.8 m	100 kW
Genoa II	986 kc/s	304.3 m	5 kW
Messina	1492 kc/s	200.1 m	5 kW
Milan I	814 kc/s	368.6 m	50 kW
Naples II	1068 kc/s	280.9 m	1 kW
Rome II	1258 kc/s	238.5 m	5 kW
Turin I	986 kc/s	304.3 m	80 kW
Udine	1258 kc/s	238.5 m	1 kW
Venice I	1222 kc/s	245.5 m	20 kW
Verona	1348 kc/s	222.6 m	1 kW

Autonomous Stations:

Radio Sardegna	536 kc/s	559.7 m	5 kW
Trieste	1140 kc/s	263.2 m	10 kW

Shortwave Stations:

Busto Arsizio I	9630 kc/s	31.15 m	50 kW
	6085 kc/s	49.30 m	50 kW
Busto Arsizio II	11810 kc/s	25.40 m	50 kW
	15120 kc/s	19.84 m	50 kW
Rome (M. Mario)	7250 kc/s	41.38 m	1 kW

DAILY PROGRAMMES ON MEDIUMWAVES

Red Network
Weekdays: 05.54-08.00, 10.00-14.30 and 16.00-23.15.
Sundays: 06.54-23.15.

Weekdays:
06.00 News, Music
07.00 News
07.20 Light Music
10.30 Music
11.25 Light Music and Song
12.00 News, Music
14.00 News
14.14 Window on the world
16.00 Music
18.35 Universita Internationale "Guglielmo Marconi"
19.30 News
22.10 Oggi al Parlamento, News

Sundays:
07.00 News, Music
07.45 Per i medici
08.00 Evangelic Service
10.00 Organ Music
10.30 High Mass
11.20 Light Music
12.00 News
16.00 Concert
19.30 News
22.10 News
22.15 Light Music

Highlight of Programmes:
Theatre: Mondays at 20.00 and Wednesdays c. 22.30.
Music Hall: Tuesday 20.00 and Friday c. 19.30.
Symphony Concert: Wednesday c. 20.30.
Opera: Thursday c. 17.30.

BLUE NETWORK
Weekdays: 05.54-07.50, 10.00-13.45 and 16.00-23.15
Sundays: 06.54-23.15

Weekdays:
05.54-12.10 see Red Network
13.00 News
16.00 Song or Theatre
16.30 Voices from Abroad
17.00 Music
19.00 News
22.10 News
22.30 Music

Sundays:
06.54-12.10 see Red Network
16.00 Orchestral Music
19.00 News
19.36 Music
22.10 News
22.25 Light Music
23.00 News

Highlights of Programmes:
Opera: Saturday 19.30
Theatre: Wednesday 20.30
Symphony Concert: Fridays c. 20.15 and Monday 20.00
Operette: Wednesday c. 20.30

RADIO BARI I
in *Arabic Daily* 15.45-15.55

RADIO TRIESTE
Address: A. I. S. Director Radio Trieste, Piazza Oberdan 5, Trieste.
Weekdays: 06.15-07.00, 10.30-13.30 and 16.30-22.00.
Sundays: 06.15-13.30 and 16.00-23.00.

RADIO SARDEGNA
Weekdays: 06.30-07.40, 10.00-14.35 and 17.55-22.55
Sundays: 06.55-14.35 and 17.15-22.55

DAILY PROGRAMMES ON SHORTWAVE:

On 19.84 m and 25.40 m:
10.00-10.30 Progr. in English and Italian to the Far East
11.20-12.00 Blue Network
12.05-12.20 Red Network
12.20-12.30 News in Italian

On 25.40 m and 31.15 m:
14.45 News in Italian

15.00-15.30 A programme devoted to World radio problems broadcasted through the interest and the initiative of the Italian Center of Radiophonic Studies, a free institution for the study of broadcasting problems. — Only Sundays alternatively in French, Swedish, English and German. One week in French and Swedish and one in English and German.
15.40 News in Rumanian

On 19.84 m and 25.40 m:
15.45 Progr. to East Africa

On 25.40 m and 31.15 m:
16.30 News in Yugoslavian
16.45 Programme in Turkish. News at 17.00
17.15 Programme in Greek. News at 17.30
17.45 Programme in French. News at 18.15
18.30 News in English and Italian to South Africa
19.00 Programme in Arabic
19.30 Programme in English. Italian Lessons 19.30. News 20.00
20.15 Programme in Swedish exc. Thursd. and Sun.
20.35-20.55 Programme in Danish exc. Thursd. and Sun.

On 31.15 m and 49.30 m:
21.00 Programme in German. Italian Lessons: 21.00. News 21.15
21.40 News in Hungarian
21.50 News in Check
22.00 News in Polish
22.10-22.20 News in Russian

On 19.84 m and 25.40 m:
22.30-00.40 To Latin America
22.30 Music
23.00 News in Portuguese
23.15 Music
00.00 News in Spanish
00.15 Music
00.45-01.55 To North America
00.45 La voce d'Italia
00.57 Music
01.15 News in English
01.30 Music

Message to Listeners: "We are very interested in any information received from abroad about our medium and short-wave transmissions. A confirmation card and all requested information are sent to every foreign listener reporting on our transmissions.

LUXEMBURG

Normal Clock Time — G. M. T. plus 1 hour.

Address: Radio Luxemburg, Compagnie Luxembourgeoise de Radiodiffusion, Villa Louvigny, Luxemburg.

Leading Personalities: President: Mr. Emile Reuter. Vice-president Delegate: Mr. Jasques Lacour-Gayet. Director-General: Mr. Rene Louis Peulvey. Chief Engineers: Mr. Mathias Felten and Mr. Ferdn. Scholtes.

Stations Radio Luxemburg.

232	kc/s	1293 m	150 kW
6090	kc/s	49.26 m	5 kW
15350	kc/s	19.54 m	5 kW
9527,5	kc/s	31.49 m	5 kW inactive.
11782,5	kc/s	25.46 m	5 kW inactive.

Daily Programmes:
On 1293 m: *Weeksdays* from 05.45-24.00.
Sundays from 06.15-24.00.
On 19.54 m: Daily from 11.00-13.30.
On 49.26 m: Daily from 16.30-22.00.

Weekdays:
05.45 News, Chronicle
06.15 "Bonjour le Monde"
06.30 Music
06.45 News and Press Review
06.55 Music
07.30 L'Heure de la Ménagère Belge (French)
09.00 News
09.01 L'Heure de la Ménagère Belge (Flemish)
11.00 News, Music
12.10 Music
11.20 Le Luxembourg parle a ses amis de l'Etranger
11.30 Music
12.00 News
12.10 Music
13.00 News
14.00 News
16.30 "Le Passé Temps des Dames et des Demoiselles
17.00 News
18.00 Progr. in Luxembourgian
18.15 News
18.30 Music and Entertainment
19.00 News
20.00 News
21.00 News
22.00 News
21.30 Dance Music (Sat. 22.00)

Sundays:
06.15 News Chronicle
06.45 "Bonjour le Monde"
07.00 Music
07.15 News
07.30 Music
08.00 Catholic Talk
08.15 Music
11.20 Le Luxembourg parle a ses amis de l'Etranger
11.30 Music and Entertainment
12.00 News
12.10 Music
13.30 The Voice of International Scouting (English)
18.00 Progr. in Luxembourgian
18.15 News
18.25 Music

Highlights of Programmes:
Symphony: 20.40 Tuesdays and 20.45 Thursdays.
Light Music: 20.00 Wednesdays — 20.50 Fridays — 15.15 Saturdays.
"L'Association des Amis de Radio Luxembourg": c. 21.20 Tuesdays; 13.00 Thursdays; 14.00 Saturdays.
"Le Forum International de Radio Luxembourg" (Mme Geneviéve Tabonis): 20.00 Sundays.
The Voice of International Scouting: 12.45 Thursdays (in French) — 13.30 Sundays (in English).

Announcements: Sundays in French and English, Weekdays in French, English and German.

Interval-signal: Melody played on piano: A Luxemburgian popular song.

Message to Listeners: We are very interested in any information received from abroad about our long- and short-wave transmissions. We attach much importance to these listeners reports and cordially invite them to write to us and frankly give us their opinion on our programmes.

MONACO

Normal Clock Time — G. M. T. plus 1 hour.

Address: Radio Monte Carlo, 16 Boulevard Princesse Charlotte, Monte Carlo.

Leading Personalities: Chairman of Board of Directors: Mr. A. Crovetto. Director General: Mr. M. Robert Schick. Chief Editor: M. Marc Mussier. Head of Administration: Mr. de la Panouse. Director of Programmes: Mr. Florent Fels. Chief Engineer: Mr. Fromaget. Head of Publicity Dept.: Mr. R. H. Dogor.

Stations: Monte Carlo.
731 kc/s 410.4 m 120 kW 6030 kc/s 49.71 m 25 kW

Daily Programmes: From 06.00-08.00 (Sun. 08.30), 11.00-13.00, 18.00-22.15.

06.00 News
06.15 Musetter-Music
07.00 News
07.15 Music
12.00 News
12.20 Music
18.15 Music
18.30 News
18.40 Music
19.30 Symphony, Lyric or Play
22.00 News

Highlights of Programmes:
Mondays: 20.10 "Le Disques que vous aimez".
Wednesdays: 19.00 "Eran Sonore". — 20.30 Variety.
Thursdays: 19.00 Variete.
Fridays: 19.45 "Pêle-Mêle".
Saturdays: 17.45 "Christo Per Tutte Le Nazione" (in Italian). 20.30 Symphony Concert.
Sundays: 08.00 "Bringing Christ to the Nations". Progr. in English. 18.30 Opera or Operette.

Announcement: Opening: "Ici Radio Monte Carlo, longueur d'ondes 410 metres, 731 kilocycles et 49.71 m 6.035 kilocycles. Bonjour Mesdames, Bonjour Mesdemoiselles, Bonjours Messieurs. Notre emission commence. En voici le programme .....".

Interval-signal: Before every transmissions period: 06.00 11.00 and 18.00 is played "L'Hymne Monegasque".

Message to Listeners: Reports are answered by letter.

NORWAY

Normal Clock Time — G. M. T. plus 1 hour.

Address: Norsk Rikskringkasting, Oslo.

Leading Personalities: Director: Mr. Kaare Fostervoll. Directors of Programmes: Mr. Thorstein Diesen. Director of Administration: Mr. Knut Tvedt. Chief-Secretary: Mr. Olav Lid. Studio-Controller: Editor Arthur Klæbo. Programme-Editors: Mr. Toralv Øksnevad. Mr. Karl C. Lyche, Mr. Fr. Chr. Wildhagen, Mr. Leif Rustad; Chief of Music Dept.: Mr. Hugo Kramm, Chief of Plays: Mr. Gunnar Neels-Hansson.
Short-wave Programmes: Mr. Gunnar Nygaard.

Stations:

Bodö	LKD	253 kc/s	1186 m	10 kW
Bergen I	LKB	260 kc/s	1154 m	20 kW
Oslo	LKO	260 kc/s	1154 m	60 kW
Tromsø	LKM	292 kc/s	1027.4 m	10 kW
Finmark	LKI	357 kc/s	865 m	1 kW
Bergen II	LLE	355 kc/s	845 m	1 kW
Hamar	LKH	519 kc/s	578 m	1 kW
Vigra	LKA	629 kc/s	476.9 m	100 kW
Kristiansand	LKK	629 kc/s	476.9 m	20 kW
Trøndelag	LKT	823 kc/s	364.5 m	20 kW
Stavanger	LKS	850 kc/s	352.9 m	100 kW
Namsos	LLB	961 kc/s	312.2 m	1 kW
Porsgrunn	LKP	1222 kc/s	245.5 m	1 kW
Narvik	LKP	1222 kc/s	245.5 m	0.3 kW
Frederikstad	LKF	1276 kc/s	235.1 m	10 kW
Notodden	LKN	1294 kc/s	231.8 m	1 kW
Lista	LKR	1294 kc/s	231.8 m	0,3 kW
Mosjöen	LKR	1357 kc/s	221.1 m	0,25 kW
Rjukan	LKR	1357 kc/s	221.1 m	0,25 kW

Shortwaves:

Frederikstad	LLI	6185 kc/s	48.50 m	10 kW
Frederikstad	LLS	7210 kc/s	41.61 m	10 kW
Frederikstad	LLG	9610 kc/s	31.22 m	50 kW
Frederikstad	LKQ	11735 kc/s	25.56 m	100 kW
Frederikstad	LLK	11850 kc/s	25.32 m	10 kW
Frederikstad	LKV	15170 kc/s	19.79 m	10 kW
Frederikstad	LLN	17825 kc/s	16.83 m	10 kW
Frederikstad	LLQ	21730 kc/s	13.81 m	10 kW
Tromsø	LKJ	6130 kc/s	48.94 m	10 kW
Tromsø	LKJ	9540 kc/s	31.45 m	10 kW
Oslo	LLR	7240 kc/s	41.44 m	5 kW

Daily Programmes:
Long- and Mediumwaves: Weekdays from 06.30-07.15, 10.10-12.45, 16.00-22.00. *Sundays:* 08.00-12.30, 16.00-22.00. *Shortwaves* from 10.45-13.30 and 16.00-22.00 (23.00 Sat. and Sun.)

Weekdays:	*Sundays:*
07.00 News	08.00 News
07.25 Progr. Preview	08.10 Progr. Preview
12.00 News	12.00 News
18.05 News,	18.05 News,
21.10 News	21.10 News,
22.00 Progr. Preview for the next day	22.00 Progr. Preview for the next day

Bergen II: Daily Regional Programmes from 11.00-11.30 and 15.30-17.35 (Sundays only 15.30-18.00)

Highlights of Programmes:
Sundays, Wednesdays and partly Thursdays at 19.00 *Symphony Concert*. Thursdays or Fridays at 19.00: *Play.*

Overseas Service:
01.00-02.00 North American Waters, and Mexican Gulf
06.30-07.30 African Waters, Whalers in Antarctic, South Atlantic, and European Waters
13.00-13.30 African Waters, Whalers in Antarctic, South Atlantic, and European Waters
19.00-20.00 African Waters, Whalers in Antarctic, South Atlantic, and European Waters
Some time in the Spring Season programmes directed to the South Atlantic and South American Waters will be started between 24.00 and 01.00 o'clock G. M. T. Announcement about the latter broadcast will be sent out in due time. These transmissions will take place on the following frequencies:
21.730 kc/s, 17.825 kc/s, 15.170 kc/s, 11.850 kc/s, 9.610 kc/s, 21.730 kc/s, 17.825 kc/s, 15.170 kc/s, 11.850 kc/s, 9.610 kc/s, 7.210 kc/s, 6.185 kc/s.
The frequencies will be interchanged in order to fit the seasonal conditions.

Announcement: "Dette er Norsk Rikskringkasting". At opening and close down: Norwegian music, generally mixed choir.

Message to Listeners: Reports are answered by QSL cards. Return postage desirable.

POLAND

Normal Clock Time — G. M. T. plus 1 hour.

Address: Polskie Radio, Foreign Liaison, Koszykowa 8 Warsaw.

Leading Personalities: Director General: Mr. Wilhelm Billig. Vice-Directors: Mr. Jerzy Panski, Mr. Tadeusz Dobrowolski. Chief Engineer: Mr. Wladyslaw Rabecki. Chief Foreign Liaison: Mr. W. Pawlak.

Stations:

Warsaw II	224 kc/s	1339.3 m	10 kW	Nat. and Local
Gdansk	278 kc/s	1078 m	1 kW	Local
Warsaw I	758 kc/s	395.8 m	50 kW	National
Poznan	868 kc/s	345.6 m	6 kW	Regional
Wroclaw	950 kc/s	315.8 m	50 kW	Regional
Torun	986 kc/s	304.3 m	24 kW	Regional
Cracow	1022 kc/s	293.5 m	10 kW	Regional
Gliwice	1231 kc/s	243.7 m	10 kW	Regional
Lodz	1339 kc/s	224.0 m	10 kW	Regional
Szczecin	1384 kc/s	216.8 m	1 kW	Local
Warsaw III	6215 kc/s	48.25 m	7,5 kW	Foreign Service

Daily Programmes:
Warsaw I. Weekdays: 05.00-08.45, 10.40-11.50, 14.25-22.30
Sundays: 06.00-10.15, 10.57-23.00

Weekdays:
04.10 Music
04.15 News, Music
05.10 News, Music
05.50 Prog. Preview, News
06.15 Press Review, Music
06.25 Russian by Radio
11.10 Music
14.25 Warsaw News, Music
15.00 News, Music
18.00 Music
19.00 News
22.00 News
22.10 Prog. Preview next day

Sunday:
06.00 Music
07.00 News
07.20 Prog. Preview, Music
11.04 Symphony Concert
13.30 Light Music
19.00 News
20.00 Programme exchange with other countries
20.30 Music
22.00 News, Music
22.50 Prog. Preview next day

Warsaw II:
Weekdays from 13.30-14.30, 16.00 21.00
Sundays: 08.00-13.00

Highlights of Programmes from Warsaw I

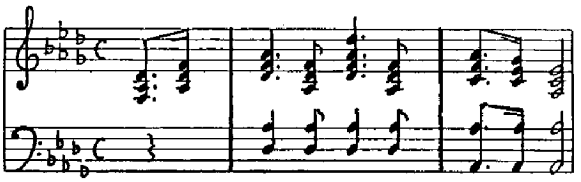
Symphony Concert: Sundays 11.04-12.00, Tuesdays 20.00-21.00, Fridays 18.15-20.30
Chopin Concert: Wednesdays 20.00-20.40
Radio Play: Sundays 14.00-15.00, Thursdays 20.00-21.00
Mickiewicz's Evening: Saturdays 18.00-18.30

Daily Programmes for Warsaw III.

15.00- Daily: Relay of Warsaw I Programme (News in Polish, Music and other items)
16.45- Wednesday: Relay of Warsaw II Programme (Music)
16.50- Monday, Tuesday: Relay of Warsaw II Programme (Music)
17.00-17.20 Broadcast in Russian
17.30-17.45 Broadcast in Bulgarian
17.45-18.00 Broadcast for Czechoslovakia
18.00-18.15 Broadcast for Yugoslavia
18.15-18.30 On Thursday: Broadcast in Rumanian
18.15-18.30 On Saturday: Broadcast in Hungarian
18.30-20.00 On Monday: Relay of Warsaw II programme (mostly music)
18.30-20.00 On Tuesday, Wednesday and Sunday: Relay of Warsaw I
18.15-19.00 On Friday: Relay of Warsaw I programme (Music)
19.15-20.00 On Friday: Relay of Warsaw II programme (Music)
18.40-20.00 On Thursday and Saturday: Relay of Warsaw I programme (Music and News in Polish)
20.00-20.30 Broadcast for Poles Abroad
20.30-20.50 Broadcast in English
20.50-21.10 Broadcast in French
21.10-21.25 On Monday and Friday: News in Spanish
21.10-21.25 On Tuesday, Thursday, Saturday and Sunday: News in Yiddish
21.10-21.25 On Wednesday: Broadcast in Esperanto
21.25-22.30 On Monday, Tuesday, Wednesday, Thursday, Friday: Relay of Warsaw I programme (Music and news in Polish)
22.30-01.30 On Monday, Tuesday, Wednesday, Thursday, Friday: News in Polish at diction speed by Polish Press Agency
23.00-02.00 On Saturday and Sunday: News in Polish at diction speed by Polish Press Agency

Announcement: The Polish programmes begin every day with a religious song: "Kiedy Ranne Wstaja Zorze". *Shortwave in English:* "This is Warsaw calling on the 49.06 meterband. We begin our daily broadcast in the English language. Here is the news . . ."

Interval-Signal: Warsaw I and III:



Warsaw II: First movement of A flat-major. Polonaise of Chopin.

Message to Listeners: Reports from Listeners of Warsaw III are answered by special QSL-cards as well as by letter. Return postage should not be enclosed.

PORTUGAL

Normal Clock Time — G. M. T.

Stations:

Lisbon I		629 kc/s	476.9 m	50 kW	National
Lisbon II		722 kc/s	415.5 m	20 kW	National
Parede	CS2ZA	1068 kc/s	280 m	20 kW	Radio Clube
Lisbon	CS2ZL	1321 kc/s	227.1 m	4 kW	Renascenca
Porto	CS2XM	1348 kc/s	222.6 m	1 kW	Renascenca
Porto		1411 kc/s	212.6 m	10 kW	National Regional
Coimbra		1429 kc/s	209.9 m	1 kW	National Regional
12 low power stations		1547 kc/s	193.6 m	0,2 kW	
Lisbon	CS2WD	6155 kc/s	48.74 m	5 kW	Renascenca
Barcarene	CS2MA	6374 kc/s	47.06 m	0,5 kW	National
Barcarene	CS2MF	9724 kc/s	30.85 m	10 kW	National
Barcarene	CS2MK	11027 kc/s	27.21 m	10 kW	National
Barcarene	CS2MP	12749 kc/s	23.52 m	0,5 kW	National
Parede	CS2WJ	12865 kc/s	23.32 m	10 kW	Radio Clube
Barcarene	CS2MQ	15100 kc/s	19.87 m	10 kW	National

EMISORA NACIONAL

Address: Rua Joao das Regras y Rua de Quelhas No. 2. Lisbon.

Leading Personalities: President: Mr. Antonio Ferro. Chief-Engineer: Engineer Manuel Bivar. Administrator: Dr. Jorge Felner da Costa. Production Manager: Mr. José Luis da Silva Dias. Station Manager: Engineer Fernando da Cunha d' Eca. Studio-Manager: Engineer Henrique Leote Tavares. Chief for the Administrative Bureau: Dr. José do Carno Carrilho. Chief for the Dept. of Programme-Coordination: Mr. Joao da Silva Tavares. Chief for the Literary Dept.: Dr. Pedro de Moura e Sa. Chief for Music Dept.: Mr. Pedro do Prado.

DAILY PROGRAMMES FOR HOME

Lisbon I: *Weekdays:* 08.30-10.00, 12.00-14.00 and 18.30-24.00, *Sundays:* 08.30-10.00 and 12.00-24.00
Lisbon II: *Weekdays:* 21.15-23.30, *Sundays:* 15.45-23.30

Highlights of Programmes:
Symphony Concert: 20.45 Thursdays.

DAILY PROGRAMMES FOR OVERSEAS SERVICE:

00.00-01.30 to Portuguese in North America on 47.06 and 30.85 m
17.30-20.30 to African and Brazilian Colonies on 19.87 and 27.17 m
21.00-23.00 to Guinea and Brazil on 19.87 and 27.17 m
Programme consists of: Programme Preview — Music — News — Theatre — Talks.

RADIO CLUBE PORTUGUES, PAREDE

Leading Personalities: Director: A. Lima Basto.

Daily Programmes in *Portuguese* on 281 m and 23.32 m, 11.45-14.00 (Sund. 14.30) and 19.30-24.00.

Announcement: Rádio Club Portugues-Parede-Portugal.

Message to Listeners: Reports answered by QSL-card.

RADIO RENASCENCA

Address: Emisora Católica Portuguesa, Rua Capelo 5, Lisbon.

Leading Personalities: Director: Mr. Manuel Lopes da Cruz. Cooperators: Father Domingos de Oliveira Costa Maia and Father Manuel Pires Moreira. Chief-Engineer: Mr. Francisco Bordalo Machado.

Daily Programmes on 223 m: 18.00-24.00 (Sundays also 11.00-13.00).

Announcement: In Portuguese: "Aqui Rádio Renascenca, Emisora Católica Portuguese". In *English:* "This is the Portuguese Roman Catholic Broadcasting System". All transmissions open with religious choir.

Interval-Signal: Gong.

RUMANIA

Normal Clock Time — G. M. T. plus 2 hours.

Address: Societatea Romana de Radiodifuziune, Str. Gen. Berthelot 41, Bucarest.
Radio Romana Libera, Alea Zoé 2, Bucarest.

Leading Personalities: Director General: Mr. Matei Socor. Programme Director: Mr. Paul Luchian. Technical Director: Prof. E. Petrascu. Commercial Director: Mr. M. Vieru.

Stations:

Romania (Brasov)	160 kc/s	1875 m	150 kW
Bucarest I	823 kc/s	364.5 m	12 kW
Bucarest II	1053 kc/s	285 m	5 kW
Bucarest Exp. S. W.	5990 kc/s	50.08 m	0,075 kW
Romania Libera	6210 kc/s	48.31 m	5 kW
Bucarest S. W.	9250 kc/s	32.43 m	4 kW
Bucarest Exp. S. W.	11900 kc/s	25.21 m	0,075 kW

Daily Programmes for **Radio Romania and Bucarest I:** *Weekdays:* 04.00-06.09, 11.00-13.10 and 16.00-22.00 (Bucarest I 18.00-21.00), *Sundays:* 05.30-22.00.

04.00 News in Roumanian
04.30 (Weekd.) News in Hungarian (only 1875 m)
05.00 News in Roumanian
05.15 News in Russian
05.30 (Sun.) News in Roumanian
06.00 News in Bulgarian
06.16 (Sun.) News in Hungarian (only 1875 m)
12.00 News in Roumanian
17.00 (Weekd.) News in Hungarian
18.00 News in Roumanian
20.00 News in Roumanian
20.25 News in Russian
21.30 News in Roumanian

Daily Programmes for Radio Romania Liberia (48.3) and **Bucarest** 32.43 and 25.21 m.

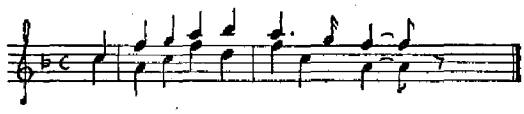
12.00-12.15 News in Greek (Weekd.) exc 25.21 m
18.00 News in Serbian
18.30 News in Russian
19.00 News in German
19.30 News in French
20.00-20.30 News in English

Highlights of Programmes on 1875 and 364 m
Symphony Concert: 18.15-20.00 Thursdays and 09.00-11.00 Sundays.
Opera: 18.15-20.00 Fridays.
Roumanian Folklore Music: Weekd. 11.25-11.55, 14.25-14.52. Sundays: 13.20-14.40, 19.10-19.30.

Announcement: In English: "This is the Roumanian broadcasting station on 25 meters and 32,4 meters, calling listeners everywhere in the world" (in English for 9250 kHz, 5990 kHz, 11900 kHz). This station is also announced in Serbian, Russian, German and French.
"Here is Free Roumania Broadcasting Station Radio Romania Liberia on 48,3 meters. This is the Roumanian Broadcasting Radio România Liberia calling listeners everywhere in the world (in English for the station 6210 kHz). This station is also announced in Greek, Russian, Hungarian, German and French.

Interval-Signals: Radio Romania and Bucarest I: The first 7 notes of "Imnul Romaniei Libere" (Free Rumania Libera.

Radio Romania Libera:



Message to Listeners: Reports are answered if return postage is enclosed.

SPAIN

Normal Clock Time — G. M. T. plus 1 hour.

Madrid	EAJ7	686 kc/s	437.3 m	18 kW
Seville	EAJ5	731 kc/s	410.4 m	10 kW
Madrid	EAJ2	758 kc/s	395.8 m	3,5 kW
Barcelona	EAJ1	795 kc/s	377.4 m	10 kW
Zaragoza	EAJ101	850 kc/s	352.9 m	30 kW
Madrid Arganda		1022 kc/s	293.5 m	120 kW
Madrid Local		1022 kc/s	293.5 m	1,2 kW
San Sebastian	EAJ8	1068 kc/s	280.9 m	2,5 kW
Barcelona	EAJ15	1123 kc/s	267.1 m	1 kW
Bilbao	EAJ28	1131 kc/s	265.3 m	2,5 kW
La Coruna		1258 kc/s	238.5 m	20 kW
Asturias	EAJ19	1258 kc/s	238.5 m	0,2 kW
Valencia	EAJ3	1258 kc/s	238.5 m	5 kW
Asturias	FET22	1428 kc/s	209.9 m	0,2 kW
Mallorca	EAJ13	1435 kc/s	209.0 m	0,1 kW
Castilla	EAJ27	1447 kc/s	207.3 m	9 kW
Common wave		1447 kc/s	207.3 m	0,5 kW
Elches	EAJ53	1485 kc/s	202.2 m	0,2 kW
Common wave		1492 kc/s	201.1 m	0,4 kW
Common wave		1500 kc/s	200.0 m	0,2 kW
Valladolid	FET1	7006 kc/s	42.83 m	0,2 kW
Malaga		7022 kc/s	42.72 m	0,2 kW
Mediterraneo de Valencia	EAJ3	7037 kc/s	42.64 m	0,2 kW
Córdoba	FET15	7042 kc/s	42.60 m	0,2 kW
Cuenca	EAJ7	7100 kc/s	42.25 m	0,2 kW*
Asturias	FET22	7131 kc/s	42.07 m	0,2 kW
S. E. U.	EDV10	7141 kc/s	42.02 m	0,1 kW
La Voz de la Falange		7380 kc/s	40.65 m	0,5 kW
Radio Falange de Alicante	FET	7940 kc/s	37.78 m	1,2 kW
Radio Atlantica		8850 kc/s	34.10 m	200 kW*
Madrid Arganda		9368 kc/s	32.02 m	40 kW
Radio Atlantica		11600 kc/s	26.70 m	200 kW*
Radio Atlantica		17600 kc/s	17.04 m	200 kW*

* under Construction

RADIO NACIONAL DE ESPANA

Address: Radio Nacional de Espana, Avenida del Generalisimo num. 40, Madrid. — Direction: Montesquinza 3, Madrid.

Announcement: *Mediumwaves:* "Lisboa Emisora Nacional de Radiodifusao". Shortwaves: "Acordes do hino Nacional".

Interval-Signal: Xylophone.

Message to Listeners: "Reports are answered by QSL-card or letter after request."

Leading Personalities: Director General: Sr. D. Alfredo Guijurro Alcocer, Sub-Director General: Sr. D. Gines de Albareda Herrera, Director of Programmes and Broadcasts: Sr. E. Thomas de Carranza. Chief-Engineer: Excmo. Sr. D. Luis Guijarro Alcocer.. Secretary General: Ilmo Sr. D. Valentin Perez Carasa.

Stations:

Madrid Arganda	1022 kc/s	293.5 m	120 kW
Madrid Local	1022 kc/s	293.5 m	1.5 kW
Malaga	1492 kc/s	201.1 m	0.2 kW
Malaga	7022 kc/s	42.72 m	0.2 kW
Cuenca	7100 kc/s	42.25 m	0.2 kW
La Coruna	1258 kc/s	238 m	20 kW
Madrid Arganda	9368 kc/s	32.02 m	40 kW

Daily Programmes on 293.5m.
Weekdays: 07.00-10.00 and 12.00-23.30. Sundays: 07.00-10.00 and 12.00-23.30.
Sundays: 07.00-10.00 and 12.00-23.30.

News: 08.45, 13.30, 18.00, 20.45, 23.00.

Highlights of Programmes:
Night Club: Thursdays 22.00
Operette Concert: Thursdays 21.30
Symphony Concert: Sundays 21.30
Theatres: Mondays 21.30 and Fridays 21.45
Request Concert: Thursdays 22.30
Varieté: Saturdays 21.30 (relayed an 32.02 m)

European Service on 32.02 m:

18.00 French	19.05 Portuguese
18.30 German	19.20 Russian
18.50 Italian	20.00 English

African Service on 32.02 m
20.30 News in Arabic
20.45 Spanish to Colonies (relay from medium waves)
21.00-21.15 Arabic (with Western musical items)

Overseas Service on 32.02 m
Broadcast to America 23.45-03.00
Commentary and News: 23.50 and 02.00 (ex. Saturd.)
Saturdays: Relay of medium wave variety progr. 23.00 News and thereafter normal progr. to America.
Short Wave: At opening and close down for all the *European* transmissions except the Russian are played: "Cabalgate Militär" and for the Russian transmission extract of the Polonaise of "Eugen Onegin" Opera by Tschaikowsky. — At opening of the transmission to *America* is played notes from "Cabalgate Militär" and at close down: "Los Voluntarios". The text of announcement is: "Aqui Radio Nacional de Espana emitiendo para los paises de America disde la otra orilla del Atlantico".

Interval-Signal: Gong and.

SOCIEDAD ESPANOLA DE RADIODIFUSION

Address: Avenida de José Antonio 32, Madrid.

Stations:

Madrid	EAJ7	686 kc/	437.3 m	18 kW
Sevilla	EAJ5	731 kc/s	410.4 m	10 kW
Barcelona	EAJ1	795 kc/s	377.5 m	10 kW
San Sebastian	EAJ8	1068 kc/s	280.9 m	2,5 kW
Bilbao	EAJ28	1131 kc/s	265.3 m	2,5 kW
Valencia	EAJ3	1258 kc/s	238.5 m	5 kW
Common wave		1447 kc/s	207.3 m	0,2 kW
Alcira		1492 kc/s	201.1 m	0,2 kW
Reus		1500 kc/s	200.0 m	0,1 kW
Mediterraneo	EAJ3	7037 kc/s	42.64 m	0,1 kW

Daily Programmes:
Madrid 13.00-00.30
Sevilla 13.00-16.00 and 18.00-00.30
Barcelona 12.00-16.00 and 18.00-24.00
Valencia and Mediterraneo 13.00-16.00 and 20.00-24.00

COMPANIA DE RADIODIFUSION INTER-CONTINENTAL

Address: 50, Diego de Léon, Madrid.

Leading Personalities: Director: Sr. Don Valentin Ruiz Senen. Sub-Director: Sr. M. Locatelli.

Shortwave Stations: *Radio "Atlantica".* 200 kW
17600 kc/s 17.04 m 11600 kc/s 26.70 m 8850 kc/s 34.10 m
Under Construction.

SERVICIO DE RADIODIFUSION Y CINE DEL FRENTE DE JUVENTUDES

Address: Radio S. E. U., Diego de Leon 49, Madrid. Chief Engineer: D. Francisco Diaz Guerra. Programme Director: D. German Bonet Marco. Chief of transmissions: D. Guillermo Fananas Vazquez.

Daily Programmes: 12.30-16.00, 18.00-19.30 and 20.30-23.30.

Announcement: Opens with a march song and: "Transmite Radio S. E. U. — La Voz de la Juventud de Espana a traves de los microfonos de su Emisora de onda corta."

Message to Listeners: "We ask all shortwave listeners to sent us reports about our transmissions, which will be answered.

LA VOZ DE LA FALANGE

Address: Alcalcá 44, Madrid.

Leading Personalities: Director: Senor T. Delgado Editor in Chief: Mr. M. Rojas. Chief-Engineer: Mr. F. Urbina.

Daily Programmes: *Spanish* from 19.55-21.30 and 23.00-00.30. In *French* from 22.30-22.55.
21.30 French Broadcast, 22.00 Music, 22.30 International Commentary, 22.45 Music, 23.00 Various.

Announcement: "Transmite la emisora La Voz de la Falange, qua da comienzo a su primera emision del dia."

Interval-Signal: First few bars of a Spanish march. At opening: "La Voz del Capitän", a song.

Message to Listeners: "We beg our listeners to write to the Manager of our broadcasting station with reception reports and suggestions for our programmes. All reports answered by letter, postage not essential but appreciated."

RADIO FALANGE DE ALICANTE

Address: Radio Falange de Alicante, Falange Espanola Tradicionalista, Alicante.

Announcements: "Radio Falange de Alicante, Espana" and sometimes: La Emisora de Levante".

SWEDEN

Normal Clock Time — G. M. T. plus 1 hour.

Address: A/B Radiotjänst, Stockholm (Programproduction).

Leading Personalities: Director General: Mr. Yngve Hugo. Director of Music: Mr. N. Broman. Director of

Talks: Mr. E. Linder. Director of Drama: Mr. Hj. Gullberg. Director of News and Special Events: Mr. O. Forsén. Director of Administration: Mr. E. Mattsson. Technical-Director: J. von Utfall. Director of Central Programmes Dept.: Mr. H. Hahr. Director of Publications Dept.: Mr. M. Ginsburg.

Stations:
Long- and Medium-Waves.

Motala	SBG	216 kc/s	1388.9 m	150 kW
Luleå	SBS	392 kc/s	765.3 m	10 kW
Östersund	SBF	415,5 kc/s	722.0 m	10 kW
Sundsvall	SBD	601 kc/s	499.2 m	10 kW
Malmberget	SCN	704 kc/s	426.1 m	0,2 kW Private
Stockholm	SBX	704 kc/s	426.1 m	55 kW
Gothenburg	SBB	941 kc/s	318.8 m	10 kW
Falun	SBV	1086 kc/s	276.2 m	100 kW
Hörby.	SBH	1131 kc/s	265.3 m	100 kW
Karlstad	SBK	1312 kc/s	228.7 m	0,25 kW
Malmö	SBC	1312 kc/s	228.7 m	2,5 kW
Norrköping	SBI	1312 kc/s	228.7 m	0,25 kW
Trollhättan	SBJ	1312 kc/s	228.7 m	0,25 kW
Uppsala	SCT	1312 kc/s	228.7 m	0,5 kW
Kiruna	SCL	1348 kc/s	222.6 m	0,2 kW Private
Säffle	SCP	1348 kc/s	222.6 m	0,4 kW Private
Varberg	SCU	1348 kc/s	222.6 m	0,2 kW Private
örebro	SCV	1348 kc/s	222.6 m	0,2 kW Private
Hudiksvall	SBM	1402 kc/s	214.0 m	1,0 kW
Eskilstuna	SCB	1402 kc/s	214.0 m	0,5 kW
Gävle	SCD	1402 kc/s	214,0 m	0,5 kW
Hälsingborg	SBQ	1402 kc/s	214.0 m	0,5 kW
Porjus	SBE	1402 kc/s	214.0 m	0,075 kW
Umeå	SBL	1402 kc/s	214.0 m	1,0 kW
Visby	SBW	1402 kc/s	214.0 m	0,5 kW
örnsköldsvik	SBN	1402 kc/s	214.0 m	0,5 kW
Uddevalla	SCR	1411 kc/s	212.6 m	0,05 kW Private
Borås	SCA	1447 kc/s	207.3 m	0,5 kW
Kalmar	SCI	1447 kc/s	207.3 m	0,2 kW Private
Halmstad	SCE	1492 kc/s	201.1 m	0,2 kW Private
Kristinehamn	SCM	1500 kc/s	200.0 m	0,2 kW Private
Jönköping	SCH	1515 kc/s	198.0 m	0,2 kW Private
Karlskrona	SBR	1530 kc/s	196.1 m	0,5 kW

Shortwave.

Motala I	SBO	6065 kc/s	49.46 m	12 kW
Motala II	SBU	9535 kc/s	31.46 m	12 kW
Motala I	SDB2	10780 kc/s	27.83 m	12 kW
Motala I	SBP	11705 kc/s	25.63 m	12 kW
Motala II	SBT	15155 kc/s	19.80 m	12 kW

Daily Programmes for National Stations:
Weekdays: 05.15-07.15, 11.00-13.30 and 15.30-c. 22.00.
Saturdays: 05.15-07.15 and 11.00-c. 22.15.
Sundays: 06.50-c. 22.00.
Weekdays:

05.15	Records.
05.30	News and Weather, Sat. also Progr. Preview.
05.40	Causerie (Sat. 05.45-06.10 Records).
05.55	Program Preview, Records (Sat. 06.10-06.40 The Lunch-Club)
06.00	(Sat. 06.10) Music.
06.40	Morning Service
07.00	News and Weather. Progr. Preview.
09.30-11.00	(Tuesd. and Thursd.) Music while you work.
11.00	The Bells of the Town-Hall of Stockholm. Poem of the Day. Progr. Preview. Music.
11.30	News and Weather. Exchange Prices. Time Signal.
13.30	Progr. Preview (ex. Saturd.).
15.30	Weather. Progr. Preview.
c. 16.45-17.55	Records
18.00-18.30	News and Weather. Topics of the Day.
21.15-21.30	News and Weather.
21.30	Music

Sundays:

06.50	Records.
07.00	News and Weather. Progr. Preview.
09.00	Records
10.00	Divine Service.
11.40	News and Weather. Progr. Preview.
15.30	Weather. Progr. Preview.
17.00	Evening Service.
18.00-18.30	News and Weather. Topics of the Day.
21.15-21.30	News and Weather.

European and Overseas Service on Shortwave.
Sundays:

00.00-01.00	For Swedes abroad	on 31.46 m and 46.46 m
01.00-01.15	DX-Programme (Saturd.)	on 31.46 m and 49.46 m
06.50-08.45	The National Progr.	31.46 m and 49.46 m
08.45-14.00	The National Progr.	on 19.80 m and 25.63 m
13.15-13.30	Sweden today, Programme in English	on 19.80 m and 25.63 m
14.00-15.00	Progr. for U. S. A. English and Swedish.	on 19.80 m and 27.83 m
*15.00-22.00	The National Progr.	on 19.80 m and 27.83 m
18.30-18.45	Spec. Progr. in French	on 27.83 m
* exc. 18.30-18.45.		on 19.80 m and 27.83 m

Weekdays:

00.00-01.00	For Swedes abroad	on 31.46 m and 49.46 m
05.15-07.15	The National Progr.	on 31.46 m and 49.46 m
07.15-07.30	Saturd. DX-Progr.	on 31.46 m and 49.46 m
11.00-13.15	(Sat. 14.00) The Nat. Progr.	on 19.80 m and 25.63 m
13.15-13.30	Sweden today, Programme in English	on 19.80 m and 25.63 m
14.00-15.00	Progr. for U. S. A. English and Swedish.	on 19.80 m and 27.83 m
15.00-15.15	Saturd. DX-Progr.	on 19.80 m and 27.83 m
*15.30-22.00	The National Progr.	on 19.80 m and 27.83 m
18.30-19.00	News in German, English	on 27.83 m
* exc. 18.30-19.00		

Announcement: "Sveriges Radio ....." and the name of the transmitting station For instance: "Sveriges Radio, Stockholm".

Interval-Signal: The first movement of Carl Michael Bellmans: "Storm och böljor tystna ren".

Message to Listeners: All correct reception reports will be answered by QSL-card. Special questions by letter. Return postage not necessary. Reports concerning the DX-Programmes can be addressed to DX-Editor, Swedish Broadcasting Service, Stockholm, Sweden.

SWITZERLAND

Normal Clock Time — G. M. T. plus 1 hour.

Addresses:
Neuengasse 30, Berne, Schweizerische Rundspruchgesellschaft, Société suisse de Radiodiffusion, Swiss Broadcasting Corporation.
Neuengasse 28, Berne, Schweizerischer Kurzwellendienst, Service suisse des Ondes courtes, Swiss Shortwave Service.
Radio-Zurich, Brunnenhofstrasse 20, Zurich.
Radio-Berne, Schwarztorstrasse 23, Berne.
Radio-Basel, Novarastrasse 2, Basel.
Radio-Lausanne, Maison de la Radio, Lausanne.
Radio-Genève, 66 Boulevard Carl Vogt, Genève.
Radio-Lugano, Campo Marzio, Lugano.

Leading Personalities:
General Manager of the S. B. C.: Mr. A. W. Glogg — General Secretary: Mr. Rudolf von Reding — Head of Administration and Finance Division: Mr. Georges Conus — Chief of the Swiss Shortwave Service: Mr. Paul Borsinger.

Managers of the Regional Sections:
Radio-Zurich: Mr. Jakob Job
Radio-Berne: Mr. Kurt Schenker
Radio Basel: Mr. Emil Notz
Radio-Lausanne: Mr. Marcel Bezençon
Radio-Genève: Mr. René Dovaz
Radio-Lugano: Mr. Stelio Molo

Stations: (Mediumwaves)

Beromunster	556 kc/s	539.6 m	100 kW
Sottens	677 kc/s	443.1 m	100 kW
Monte Ceneri	1167 kc/s	257.1 m	15 kW
Basel[1])	1375 kc/s	218.2 m	0,5 kW
Savière[2])	1375 kc/s	218,2 m	0,1 kW

[1]) Relay Beromünster. [2]) Relay Sottens.

Schwarzenbourg (Shortwaves)

HER 3	6165 kc/s	48.66 m	100 kW
HEI 3	7210 kc/s	41.61 m	25 kW
HEU 3	7380 kc/s	40.65 m	25 kW
HER 4	9535 kc/s	31.46 m	100 kW
HED 6	9655 kc/s	31.07 m	50 kW
HEI 5	11715 kc/s	25.61 m	25 kW
HEU 5	11815 kc/s	25.39 m	25 kW
HER 5	11865 kc/s	25.28 m	100 kW
HED 7	15120 kc/s	19.84 m	25 kW
HER 6	15305 kc/s	19.60 m	25 kW
HER 7	17784 kc/s	16.87 m	25 kW

HOME PROGRAMMES

Daily Programmes from BEROMUNSTER in German

Weekdays: 05.40-06.30, 10.00-13.30, 15.00-22.00
Saturdays: 05.40-06.30, 10.00-22.00
Sundays: 5.55-06.30, 08,00-21.30

Weekdays:
05.40 Exercise
06.00 News
06.05 Programme Preview
10.00 Music
11.30 News
18.30 News
18.40 "Echo der Zeit"
20.45 Mondays: Weekly
11.40 Music (Saturday "Die Woche'im'Bundeshaus")
16.30 Children's Hour
18.10 Fridays: World-Chronicle review for Swiss-abroad
21.00 News

Sundays:
06.00 News
06.05 Programme Preview
08.00 Protestant Service
08.45 Catholic Service
09.15 Orchestra
10.20 Literature
11.30 News
13.00 "Die Stunde für das Land". (Folklore music and talks)
14.00 Music or Sport
18.30 News
21.00 News

Highlights of Programmes:
Weekly Review for Swiss Abroad: Mondays at 20.45
Symphony Concert: Tuesdays at 19.00
Play: Thursdays at 19.00
"Bunter Abend": Saturdays at 19.00

Daily Programmes from SOTTENS in French.

Weekdays: 06.10-06.40, 10.00-13.00, 15.30-22.00
Sundays: 06.10-06.40,07.45-22.00
Saturdays: 06.10-06.40, 10.00-22.00
06.10 Music — 06.15 News — 06.20 Music
11.15 Music — 11.45 News, Music — 18.10 Progr. Preview (Sun.: 07.45 Catholic Service. 09.00 Protestant Service) — 18.15 News — 21.30 News.

Highlights of Programmes:
Tuesday: 19.30 Radio Play
Wednesday: 19.30 Symphony Orchestra

Daily Programmes from MONTE CENERI in Italian.

Weekdays: 06.00-06.45, 10.00-13.00, 15.30-22.00
Sundays: 06.00-06.30, 09.00-23.00
06.15 News, Music — 09.40 Catholic Service (Sun.) — 11.15 Music — 11.30 News — 18.00 Music — 18.25 Progr. Preview — 18.15 News — 18.40 Music — 21.15 News, Music.

Hightlights of Programmes: Tuesdays: c. 19.00: Symphony Concert.

EUROPEAN AND OVERSEAS SERVICE SCHWARZENBOURG

European Service:
Weekdays: 05.40-06.40, 11.10-12.15 and 17.00-22.00 on HEI5 and HER3
Sundays: 05.55-06.40 and 07.45 22.00 on HEI5 and HER3

05.40 Exercise (Weekd.)
06.00 News (German)
06.15 Information (French)
06.20 Music (French)
07.45 Holy Mass (Sunday)
10.00 Music (Sunday)
11.10 (Sund. 11.15) Home News (German)
11.30 News (German)
11.45 Information (French)
12.00 Relay of National Progr. (Sunday)
17.00 Ora ticinesé (Italian)
18.15 Informations (French)
18.30 News (German)
18.40 »Echo der Zeit« (Weekd.)
19.00 Relay of National Progr.
21.30 News (French)
21.35 Home News. Commentary (German)
21.50 News (German)

Switzerland calling England:
19.15-20.15 on HEI3

19.15 Home News
19.30 Music from Switzerland
19.45 Towards a better World
19.55 Views on the News
20.00 The Swiss Curiosity Shop

Programa para Espana y Portugal:
21.30-22.15 on HER5

21.30 News and Commentary in Portuguese
21.45 Music
22.00 News and Commentary in Spanish

Africa (only Saturdays)
14.30-15.10 on HER6 and HER7: Schwyzertütsche Heimetobig
15.10-15.50 on HER7: Serata Ticinese
15.50-16.30 on HER6 and HER7 Soirée romande

Switzerland calling South Africa:
20.30-21.15 on HER6

20.30 Home News
20.40 The Swiss Viewpoint
20.45 Music from Switzerland
20.55 Towards a better World
21.00 The Swiss Curiosity Shop

Switzerland calling North America:
22.30-23.15 on HEU5
01.30-03.30 on HER3 HER4 and HEU5

22.30 Home News
22.35 News Commentary
22.45 Towards a better World
22.50 Views on the News
23.00 The Swiss Curiosity Shop
01.30 Musical Salute
01.35 News
01.45 Commentary
01.50 Music from Switzerland
02.00 Towards a better World
02.05 Music or Variety
03.00 Home News and Commentary
03.15 The Swiss Curiosity Shop
03.25 Programme Preview

Switzerland calling Australia, New Zealand and Far East:

07.15-09.15 on HER5, HEI5 and HER6 only Mondays Tuesdays, Thursdays, Fridays and Saturdays:

07.15 Home News
07.30 The Swiss Curiosity Shop
07.45 Towards a better World
07.50 Music or Variety
08.45 Home News
09.00 The Swiss Curiosity Shop

12.30-14.15 on HER7 only Mondays, Tuesdays, Thursdays and Fridays:

12.30 Home News
12.45 The Swiss Curiosity Shop
13.00 Towards a better World
13.05 Music or Variety
14.00 Home News

Switzerland calling India, Pakistan and Near East:

14.45-16.30 on HER5 and HER7 only Mondays, Tuesdays, Thursdays, Fridays:

14.45 Home News
15.00 The Swiss Curiosity Shop
15.15 Towards a better World
15.20 Music or Variety
16.15 Home News

Programa para America Latina:

23.30-01.00 on HER4, HER5 and HED7

23.30 Programme in Brazilian
23.45 (in Spanish) Sundays: Concierto dominical. — Mondays: Soirée romande. — Tuesdays: Musica. — Wednesdays: Serata Ticinese. — Thursdays: Concierto sinfónico. — Fridays: Para los Suizos. — Saturdays: Bailables en Suiza.
00.40 News and Commentary in Spanish.

Announcements:

Beromunster: "Schweizerischer Landessender Beromünster, Studio . . . Basel, Bern oder Zürich."

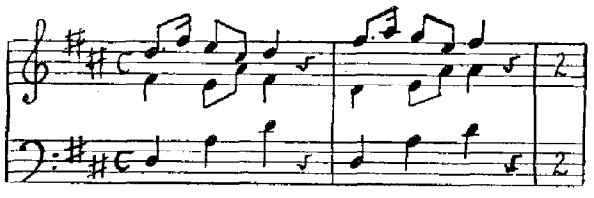
Sottens: "Emetteur national de Sottens, Studio de Lausanne ou de Genève."

Monte Ceneri: "Stazione nazionale del Monte Ceneri, Studio di Lugano."

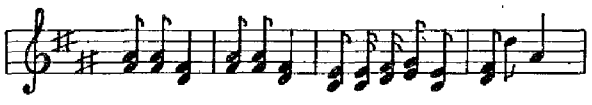
Schwarzenburg: "Schweizerischer Kurzwellensender Schwarzenbourg." "Ici, la Suisse. Emetteur national d'ondes courtes de Schwarzenbourg." "Qui è la Svizzera, trasmettitore nazionale ad onde corte di Schwarzenbourg." "Switzerland calling! The Swiss Broadcasting Corporation."

Interval-Signal:

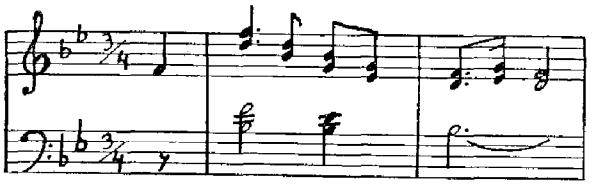
Beromunster: Radio Basel: "Z'Basel a mym Rhy"



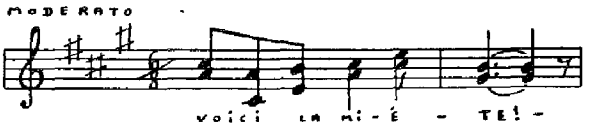
Radio Bern: D'Zyt isch do



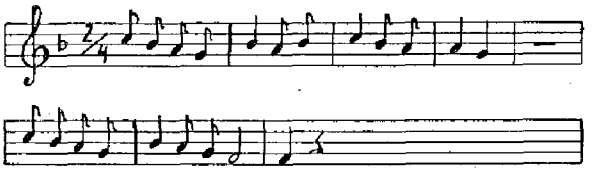
Radio Zurich: "Chum Bueb und lueg dis Ländli a"



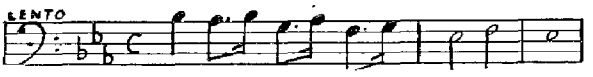
Sottens: Radio Lausanne: "Voici la mi-été"



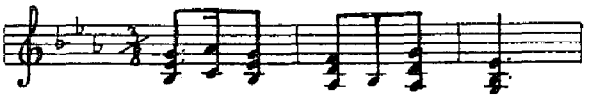
Radio Genève: "Quelle fatale journée" chanson de l'Escalade



Monte Ceneri: "Campane delle Chiesa di Pazzalino"



Schwarzenbourg: "Lueget vo Berg und Thal"



Message to Listeners: Reports are welcomed and answered by QSL-cards.

UNO BROADCASTING FROM GENEVE

Address: United Nations Radio c/o Director. of Information Center., European Office of the United Nations, Geneve.

Stations: Prangins 25 kW.
18450 kc/s 16.26 m 6672 kc/s 44.07 m

Daily Programmes: From Monday to Friday: 18.00 and 21.00: 10 minutes broadcasts in English and French. News about international cooperation and about the United Nations from a completely objective source. Comments, criticism and suggestions are always welcome.

U. S. S. R.

Normal Clock Time (Moscow) — G. M. T. plus 3 hours.

Address: Radio Centre, Moscow

Stations: *Long- and Mediumwave:*

Kowno	153 kc/s	1961 m	120 kW
Moscow	174 kc/s	1724 m	500 kW
Moscow	200 kc/s	1500 m	100 kW
Leningrad	208 kc/s	1442 m	100 kW
Baku	218 kc/s	1379 m	50 kW
Moscow	232 kc/s	1293 m	100 kW
Kiew	248 kc/s	1210 m	150 kW
Minsk	269 kc/s	1115 m	50 kW
Kasan	283 kc/s	1056 m	50 kW
Charkow	385 kc/s	779.2 m	50 kW
Wilna (Vilnus)	536 kc/s	559.7 m	50 kW
Rostow	556 kc/s	539.6 m	50 kW
Riga	583 kc/s	514.6 m	20 kW
Moscow	620 kc/s	483.9 m	100 kW
Moscow	713 kc/s	420 m	100 kW
Tallinn	731 kc/s	410.4 m	50 kW
Leningrad	749 kc/s	400 m	20 kW
Lvov	795 kc/s	377 m	10 kW
Moscow	832 kc/s	360.6 m	100 kW

Simferopol	859 kc/s	349 m	20 kW
Moscow	950 kc/s	315.8 m	120 kW
Leningrad	1040 kc/s	288.6 m	20 kW
Madona	1258 kc/s	238 m	10 kW

SHORTWAVE-STATIONS:

Moscow:

4550 kc/s	65.93 m	8050 kc/s	37.27 m	12170 kc/s	24.65 m
5090 kc/s	58.94 m	8750 kc/s	34.29 m	12230 kc/s	24.52 m
5330 kc/s	56.29 m	8830 kc/s	33.97 m	13020 kc/s	23.04 m
5440 kc/s	55.15 m	8910 kc/s	33.67 m	13400 kc/s	22.39 m
5780 kc/s	51.90 m	9045 kc/s	33.16 m	13610 kc/s	22.04 m
5920 kc/s	50.67 m	9100 kc/s	32.97 m	13655 kc/s	21.94 m
5960 kc/s	50.30 m	9420 kc/s	31.85 m	14830 kc/s	20.32 m
6020 kc/s	49.83 m	9480 kc/s	31.64 m	15080 kc/s	19.95 m
6050 kc/s	49.59 m	9540 kc/s	31.45 m	15144 kc/s	19.82 m
6070 kc/s	49.42 m	9650 kc/s	31.09 m	15170 kc/s	19.78 m
6130 kc/s	48.94 m	9685 kc/s	30.98 m	15087 kc/s	19.88 m
6220 kc/s	48.23 m	9725 kc/s	30.86 m	15230 kc/s	19.70 m
6700 kc/s	44.78 m	9760 kc/s	30.74 m	15280 kc/s	19.63 m
6768 kc/s	44.32 m	9800 kc/s	30.61 m	15310 kc/s	19.60 m
6920 kc/s	43.36 m	10204 kc/s	29.40 m	15320 kc/s	19.58 m
6980 kc/s	42.92 m	10230 kc/s	29.32 m	15340 kc/s	19.56 m
7160 kc/s	41.87 m	10445 kc/s	28.72 m	15407 kc/s	19.47 m
7190 kc/s	41.72 m	11315 kc/s	26.50 m	15440 kc/s	19.43 m
7200 kc/s	41.67 m	11740 kc/s	25.55 m	15.750 kc/s	19.05 m
7270 kc/s	41.26 m	11710 kc/s	25.62 m	17630 kc/s	17.02 m
7300 kc/s	41.10 m	11780 kc/s	25.47 m	17750 kc/s	16.90 m
7330 kc/s	40.93 m	11830 kc/s	25.36 m	17820 kc/s	16.84 m
7410 kc/s	40.50 m	11900 kc/s	25.21 m	18170 kc/s	16.51 m
7500 kc/s	40.00 m	11950 kc/s	25.10 m	21.220 kc/s	14.14 m
7545 kc/s	39.76 m	11960 kc/s	25.08 m	17860 kc/s	16.80 m
7650 kc/s	39.22 m	12020 kc/s	24.96 m	21505 kc/s	13.95 m
7790 kc/s	38.50 m	12060 kc/s	24.88 m	21.560 kc/s	13.91 m
7865 kc/s	38.14 m	12112 kc/s	24.77 m		

Leningrad:

4650 kc/s	64.51 m	7342 kc/s	40.87 m	9750 kc/s	30.77 m
5030 kc/s	59.64 m	7430 kc/s	40.38 m	10770 kc/s	27.86 m
5732 kc/s	52.34 m	9600 kc/s	31.25m	11630 kc/s	25.79 m
6245 kc/s	48.04 m				

HOME PROGRAMME

Daily Programmes in Russian from Moscow I.

On 1961, 1724, 1500, 420,8, 41.27, 31.65, 31.09, 25.62, 25.55, 25.36, 25.26, 25.21, 25.08, 19.56, and 19.47 m.

03.05 News, Progr. Preview
03.25 Exercise
04.00 News
04.45 Pioneer Hour
05.00 From the Newspapers
05.15 Exercise
05.45 News, Progr. Preview
08.45 From "Pravda"
09.00 From the Newspapers
10.00 For Farmers
11.00 Entertainment or articles from the newspapers
12.45 Progr. Preview
15.00 Youth Broadcast
16.00 News, Progr. Preview
20.30 News

Daily Programmes in Russian from Centre Moscow II. On 1293, 360, 315.8, 30.61 and 25.10 m.

11.45 News from "Moscow Bolsjevik"
12.30 News from the Central Newspapers
13.45 News, Progr. Preview
16.30 For Farmers
19.00 News
21.50 News.

Daily Programmes from Moscow III. On 360 m and 31.41 m (from 17.00-22.00).

15.30 Moscow News
15.45 Moscow News

EUROPEAN SERVICE

Daily Programmes in order of languages:

Austrian:
17.00-17.30 in 25-19 m. b. and 506 m (Viennal)
18.00-18.30 in 25 m. b. and on 377 and 1115 m

Czech:
16.30-17.00 in 31-25-19 m. b.
18.30-19.00 in 31-25-19 m. b.
21.00-21.30 in 31-25-19 m. b. and on 1115 m.

Danish:
17.00-17.15 on 25.79 m
18.00-18.30 on 25.79 m. b.

Dutch:
17.15-17.30 on 19, 25, 31 and 41 m. b.
20.00-20.30 on 31 and 41 m. b.

English:
19.00-19.30 on 31 and 41 m. b.
20.00-20.30 in 31-25-19-16 m. b.

Finnish:
14.15-14.45 in 31-25-19 m. b.
19.00-19.30 on 41.10 and 514.6 m
20.30-21.00 on 41.10 and 514.6 m.

French:
17.30-18.00 on 25, 30, 31, 40 and 41 m. b.
19.30-20.00 on 31, 40 and 41 m. b.
21.00-21.30 on 31, 40 and 41 m. b.

German:
07.00-07.30 on 19, 25, 31 and 49 m. b. and 415 m.
15.00-15.30 on 25, 31, 40 and 49 m. b. and 415 m.
16.00-16.30 on 30, 31, 40, 41 and 49 m. b and 415 m.
17.00-18.00 on 31-39-41-360-415 m. b.
18.00-19.00 on 30, 31, 40, 41 and 49 m.b .
20.00-20.30 on 30, 40, 49 m. b. and 415 m.
21.30-22.30 Music every Wednesday and Sunday on 30, 31, 39, 41 and 45 m. b. and 360, 377, 400, 415, 515, and 1115 m.

Norwegian:
19.30-20.00 on 41.10 m and 514.6 m

Swedish:
20.00-20.30 on 30.80, 401 and 515 m.
21.00-21.15 on 30.80, 401 and 515 m.

English (USA):
12.45-13.15 on 41, 31, and 25 m. b.
23.20-24.00 on 31, 25 and 19 m. b.
02.00-02.45 on 41, 31, 25 and 19 m. b.

VATICAN STATE

Normal Clock Time — G. M. T. plus 1 hour.

Address: Radio Station, Vatican City (Stazione Radio, Città del Vaticano).

Leading Personalities: Director of Vatican Radio Station: Father Soccorsi, Prof. Filippo S. J.

Stations: Radio Vaticano, HVJ.

1348 kc/s	222.55 m	5 kW	9660 kc/s	31.06 m	25 kW
5970 kc/s	50.26 m	10 kW	11685 kc/s	25.67 m	25 kW
6005 kc/s	49.96 m	25 kW	11740 kc/s	25.55 m	25 kW
6030 kc/s	49.75 m	25 kW	15095 kc/s	19.87 m	10 kW
6190 kc/s	48.47 m	25 kW	15120 kc/s	19.84 m	25 kW
7250 kc/s	41.38 m	25 kW	17450 kc/s	17.19 m	25 kW
7280 kc/s	41.21 m	25 kW	17840 kc/s	16.82 m	25 kW
9550 kc/s	31.41 m	25 kW			

Every Sunday at 10.30 on 31.06 m and 50.26 m: Broadcast Mass, celebrated for the intentions of the Holy Father. Music during the Mass.
Gospel homily for 15 mins. before Mass, alternately in English, French, German, Spanish and Polish.

Daily Programmes in English:
News at 15.00 on 31.06 and 19.87 m
News at 15.45 on 17.19 and 16.82 m
Talks at 18.15 on 31.06 and 50.26 m

Daily Programmes in Italian:
News at 13.30 on 31.06-48.47-50.26 and 2222 m
Talks at 19.30 on 31.06-48.47-50.26 and 222 m
Every Monday 17.15 on 48.47-50.26 and 222 m. Religious Dialogue
Every Saturday 19.15 on 31.06-48.47-50.26 and 222 m. Religious Dialogue
Every Sunday 11.15 on 31.06-48.47-50.26 and 222 m Gospel homily
Every Sunday 12.30 on 31.06-48-47-50.26 and 222 m. "Campo di Dio" Radio panorama of Catholic activities

Daily Programmes in French:
News at 14.30 on 31.06-48.47 and 19.87 m
Talks at 18.45 on 31.06-48.47 and 50.26 m

Daily Programmes in German:
News at 14.45 on 31.06-48.47 and 19.87 m
Talks at 19.45 on 48.47 and 50.26 m

Daily Programmes in Spanish:
News at 14.15 on 31.06-48.47 and 19.87 m
Talks at 20.00 on 48.47 and 50.26 m

Daily Programmes in Polish:
News at 15.15 at 31.06-48.47 and 19.87 m
Talks at 19.15 on 48.47 and 50.26 m. (Every: Tuesday-Wednesday-Thursday-Friday-Sunday)

Czech and Slovac Programmes:
News at 13.50 on 31.06-48.47 and 19.87 m (Every: Tuesd.-Sat.)
News at 18.00 on 31.06-48.47-50.26 m (Every: Mond.-Wednesd.-Frid.)

Croat Programmes:
News at 13.50 on 31.06-48.47-50.26 m (Every: Wednesday)
News at 18.00 on 31.06-48.47-50.26 m (Every Tuesday-Sunday)

Slovene Programmes:
News at 18.00 on 48.47-31.06-50.26 m (Every: Thurs.-Sat.)

Dutch Programmes:
News at 13.50 on 19.87-31.06-48.47 m (Every: Friday)
News at 19.00 on 31.06-48.47-50.26 m (Every: Mond.-Thursd.)

Hungarian Programmes:
News at 13.50 on 31.06-48.47-19.87 m (Every: Thursday)
News at 19.00 on 31.06-48.47-50.26 m (Every: Wednesd.-Sund.)

Lithuanian Programmes:
News at 13.50 on 31.06-48.47-19.87 m (Every: Sunday)
News at 19.00 on 31.06-48.47-50.26 m (Every: Saturday)

Arab. Programme:
News at 17.45 on 50.26-31.06-48.47 m (Every: Saturday)

Portuguese Programme:
News at 20.15 on 50.26-48.47-31.06 m Every: Thursday-Sunday)

Rumanian Programme:
News at 13.50 on 48.47-31.06-19.87 m (Every: Monday)

Ukrainian Programme:
News at 19.00 on 50 26-48.47-31.06 m (Every: Tuesday)

Lettonian Programme:
News at 17.30 on 50.26-48.47-31.06 m(Every Thursday)

Abyssinian Programme:
News at 17.45 on 50.26-48.47-31.06 m(Every Thursd. and Sund.)

ANNOUNCEMENTS: In *English:* "Laudetur Jesus Christus" this is the Vatican Radio."

OPENING-SIGNAL: The bells of St. Peters.

INTERVAL-SIGNAL: Carillon on organ — Melody "Christus Vincit".

YUGOSLAVIA

Normal Clock Time — G. M. T. plus 1 hour.

Addres: The Radio Committe of the Federal People's Republic of Yugoslavia, Belgrade.

Leading Personalities: President: Mr. Jovan Marinovic. — Secretary General: Mr. V. Korac. — Chief Engineer: Mr. V. Popovic.

Stations:

Ljubljana	527 kc/s	569 m	0,6 kW
Kranj	527 kc/s	569 m	20 kW
Zagreb	629 kc/s	477 m	20 kW
Ajdovscina	665 kc/s	451 m	0,9 kW
Maribor	665 kc/s	451 m	5 kW
Belgrade I	686 kc/s	437 m	20 kW
Rijeka	767 kc/s	391 m	1,5 kW
Belgrade II	940 kc/s	320 m	2,5 kW
Pristina	1080 kc/s	278 m	0,5 kW
Sarajevo	1086 kc/s	277 m	20 kW
Osijek	1172 kc/s	256 m	0,8 kW
Skoplje	1240 kc/s	242 m	20 kW
Cetinje	1377 kc/s	218 m	0,2 kW
Zajecar	1438 kc/s	209 m	0,4 kW
Dubrovnik	1450 kc/s	207 m	0,8 kW
Belgrade	6100 kc/s	49.18 m	10 kW
Belgrade	6140 kc/s	48.86 m	10 kW
Belgrade	9505 kc/s	31.56 m	10 kW

Daily Programmes:

Belgrade I and II:

Weekdays: 05.25-07.15, 13.00-16.15 and 16.55-24.05.
Sundays: 05.25-08.45, 12.30-16.15 and 16.55-24.05.

05.25 Progr. Preview, Music
06.00 News, Press Review
06.30 Music
13.00 Music
15.00 News, Music
19.00 News, Music
20.30 Political Review of the week
22.00 News, Music
23.00 News, Music
24.00 Progr. Preview for next day

Zagreb:

Weekdays: 06.00-07.00, 14.00-17.00 and 18.30-23.15.
Sundays: 06.00-16.00 and 18.00-23.15.

Kranj and Ljubljana:

Weekdays: 06.00-08.00, 12,30-15.00 and 18.00-23.00.
Sundays: 08.00-23.00.

Sarajevo: 06.15-07.15, 14.00-15.00 and 18.55-23.00.

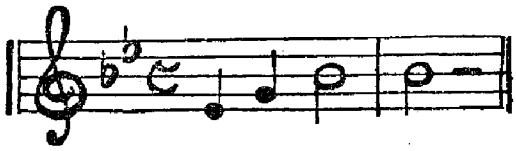
Skolpje: 06.00-07.00, 13.00-15.00 and 18.00-22.20.

Daily Programmes on shortwave:
31.56 m: 12.00-14.45. *49.18 m:* 17.00-24.00.

12.00 Slovenian
12.15 Italian
12.30 Hungarian
12.45 Greek
13.00 Russian
13.15 Rumanian
13.30 Czech
13.45 Slovak
14.00 Macedonian
14.15 Bulgarian
14.30 Albanian
17.00 Rumanian
17.30 Hungarian
18.00 Italian
18.15 Greek
18.30 English
18.45 French
19.00 Russian
19.30 Czech
20.00 Bulgarian
20.30 Polish
21.00 Turkish
21.15 German
21.30 French
21.45 English
22.00 Serbo-Croat
22.30 Spanish (30 min.)
22.30 News at dictation speed

Announcement: "Radio Beograd". Frequently female announcer.

Interval-Signal: Four bell tones.



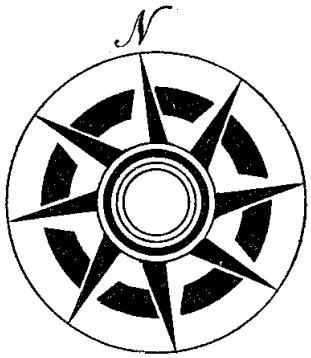
Message to Listeners: "Reports are answered by letter."

AFRICA AND NEAR EAST

PORTO DELGADA
TENERIFFE
RABAT
ORAN
ALGIERS
TUNIS
TRIPOLIS
BENGHAZI
CAIRO
ANKARA
TÆBRIZ
ALEPPO
BEIRUT
JERUSALEM
BAGHDAD
TEHERAN
PRAIA
DAKAR
BISSAU
ACCRA
LAGOS
OMDURMAN
ADEN
ADDIS ABEBA
NAIROBI
BRAZZAVILLE
LÉOPOLDVILLE
LUANDA
LOBITO
BENGUELA
LUSAKA
SALISBURY
TANANARIVE
LOURENCO MARQUES
JOHANNESBURG
CAPE TOWN
ST. DENIS RÉUNION
PT. LOUIS MAU

A typical studio-picture from Radio International Tangier.

Daily life at Radio Brazzaville (French Equatorial Africa). Native paddlers daily offer their merchandise at the station.



map Africa Near East Radio Brazzaville French Equatorial Africa Radio International Tangier

AFRICA

ALGERIA

Normal Clock Time — G. M. T.

Address: Radio-Algerie, 10 rue Hoche, Algiers.

Leading Personalities: Director: Henry Gaynaud. Chief-Engineer Mr. Bariani, Director of Programmes: Mr. Vandelle. Chief of Information: Mr. Jean Jacques. Director of Administration: Mr. Robert. Chief of Arabic Transmissions: Cdt. Wilson.

Stations:

Network for French Transmissions.

Algiers I	941 kc/s	318.8 m	20 kW
Constantin I	1086 kc/s	276 m	0,15 kW
Bone	1249 kc/s	240.2 m	0,2 kW
Oran I	1429 kc/s	209.9 m	1 kW
Algiers O. C. II	9570 kc/s	31.34 m	25 kW
Algiers O. C. I	11835 kc/s	25.35 m	10 kW

Network for Arabic Transmissions.

Algiers II	1113 kc/s	269.5 m	10 kW
Oran II	1255 kc/s	239.2 m	0,2 kW
Constantin II	1438 kc/s	208.6 m	0,75 kW
Tlemcen	835 kc/s	359 m	0,75 kW
Algiers O. C. I	9570 kc/s	31.34 m	26 kW
Algiers O. C. II	11835 kc/s	25.35 m	10 kW

Network for Kabyl Transmissions:

Fort National.	1400 kc/s	214 m	0,75 kW
Algiers III	1070 kc/s	280 m	0,25 kW
Algiers O. C. II	9570 kc/s	31.34 m	25 kW

DAILY PROGRAMMES IN FRENCH:

On medium-waves:
Sundays from 07.00-23.00. *Weekdays* from 06.30-08.00. 12.00-14.00. (*Thursdays* 15.00) and 18.30-23.00 (*Saturdays* 24.00).

On short-wave 31.34:
Daily from 20.00-23.00
News: 06.30, 07.30, 12.45, 13.55, 18.30, 20.00 and 22.45.

Highlights of Programmes:
Symphony: 21.00-22.30 Thursdays.
Theatre: 20.30 on Tuesdays and Saturdays.
Songs of Today and Tomorrow: 21.30-22.15 Sundays.
Variety: 20.30 Wednesdays.

DAILY PROGRAMMES IN ARABIC:

On medium-waves:
Sundays from 07.00-09.00, 11.00-15.00 and 18.00-22.30.
Weekdays from 06.30-08.00, 11.45-14.00 and 18.00-22.30 (Sat. 23.00).

On short-wave 31.34: Daily from 18.30-20.00.

Announcement: *French network:* "Ici Radio Algerie, nous emettons sur 318 m (et 31.34. le soir de 20 H à 23 H).
Arabic network: "El Djezoir" (Alger) (sur 269 m 50 et 31.34 m le soir de 18 H 30 à 20 H 00).

Interval-Signals: *French network:* Before and after *each transmission* extract from the melodies: "Marouf" by Rabaud and "Escales" by Jaques Ibert. Before and after *news* extracts from the melody "La Casquette du Pere Buegeaud" played on bells. After the transmissions of the day: "La Marseillaise". *Arabic network:* Before and after each transmission extracts from "LAH'N H'ANINE" of Salim Halali.

Message to Listeners: "Reports are answered either by QSL card or by letter".

ANGOLA (Portuguese West Africa)

Normal Clock Time — G. M. T. plus 1 hour.

Stations:

CR6RF	7054 kc/s	42.54 m	0,15 kW
CR6RD	7152 kc/s	41.95 m	0,30 kW
CR6RE	7165 kc/s	41.87 m	0,05 kW
CR6RI	7165 kc/s	41.87 m	0,10 kW
CR6AA	7177 kc/s	41.80 m	1 kW
CR6RC	7299 kc/s	41.10 m	1 kW
CR6RM	7700 kc/s	38.96 m	0,10 kW
CR6RA	8090 kc/s	37.08 m	1 kW
CR6RG	8242 kc/s	36.40 m	0,10 kW
CR6RB	9165 kc/s	32.73 m	0,25 kW
CR6RH	9235 kc/s	32.49 m	0,10 kW
CR6RA	11035 kc/s	27.18 m	0,40 kW
CR6RC	11730 kc/s	25.58 m	0,10 kW
CR6RL	15915 kc/s	18.85 m	1 kW

RADIO BENGUELA

Address: Radio Club de Benguela, P. O. B. No. 19, Benguela.

Stations: *Radio Club de Benguela.*

CR6RB	9165 k/cs	32.73 m	0,45 kW
CR6RF	7054 kc/s	42.54 m	0,15 kW

Daily Programmes: On 32.73 m from. 11.15-12.00. On 42.54 m 17.30-19.00. *Sundays:* 16.00-18.30.
News in Portuguese at 11.45 and 18.00.

Announcement: "Radio Club de Benguela, Angola, Africa Occidental Portuguesa".

Interval-Signal: Four chimes every quarter of the hour.
Message to Listeners: "We ask all shortwave listeners to send us reports, which will always be verified".

RADIO LOBITO

Address: Radiodifusora do Lobito. Caixa Postal 103, Lobito.

Leading Personalities: Director and Owner: Álvaro de Carvalho. Director of Programmes: Marcolino Lopes.

Stations: Radio Lobito.

CR6AA	7177 kc/s	41.80 m	1 kW

Daily Programmes:
In *Portuguese* from 06.15-06.45, 11.30-12.45, 18.00-20.00.
In *English: Sundays* from 15.30-16.30.

Announcement: "This is Lobito, short-wave broadcasting station CR6AA."

Interval-Signal: Chimes.

Message to Listeners: The Radio Station CR6AA, at Lobito, Angola, Portuguese West Africa greets all listeners and is always glad to receive their comments on programmes.

RADIO CLUBE DE ANGOLA

Address: P. O. Box 229, Luanda, Angola.
Leading Personalities: Director General: Comandante Manuel de Albuquerque e Castro.

Stations:

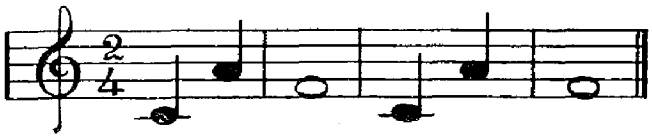
CR6RL	15915 kc/s	18.85 m	1 kW
CR6RC	11730 kc/s	25.58 m	0,10 kW
CR6RA	11035 kc/s	27.18 m	0,4 kW
CR6RA	8090 kc/s	37.08 m	1 kW
CR6RC	7299 kc/s	41.10 m	1 kW

Daily Programmes:
Weekdays: 06.00-07.00 on 11035 kc/s and 7299 kc/s
11.15-12.45 on 11035 kc/s, 8090 kc/s and 7399 kc/s
11.00-11.30, 17.00-18.00, 19.00-21.00 on 15915 kc/s
18.30-21.00 on 8090 kc/s and 7299 kc/s
19.30-21.00 on 8090 kc/s

Sundays: 08.00-09.30 on 8090 kc/s
15.30-17.30 on 8090 kc/s and 7299 kc/s
16.00-17.00, 19.30-21.00 on 8090 kc/s

Announcement: "Luanda, Rádio Clube de Angola".

Interval Signal:



CR6RE — RADIO CLUB DE MALANGE, MALANGE
Addres: Caixa Postal No. 83, Malange.
Daily Programmes in Portuguese from 19.30-20.30, and 12.30-13.00 on Weekdays. Sundays from 07.00-08.00 and 12.30-13.00.

CR6RI — RADIO CLUB DE NOVA LISBOA, NOVA LISBOA

CR6RG — RADIO DIAMANG, DONDO

CR6RH — RADIO CLUB DE HUILLA, SA DA BENDEIRA

CR6RM — RADIO CLUB DE MOCAMEDES, MOCAMEDES

AZORES

Normal Clock Time — G. M. T. minus 2 hours.

Address: Emissor Regional dos Azores, Ponta Delgada, San Miguel, Azores.

Stations: Ponta Delgada.

CSX2	4040 kc/s	74.26 m	1 kW Local
CS9MA	7015 kc/s	42.76 m	1 kW To Europa

Daily Programmes in *Portuguese* 22.00-24.00.

Announcement: "Emissor Regional dos Azores."
Message to Listeners: Reports answered by letter.

BELGIAN CONGO

Normal Clock Time: — G. M. T. plus 1 hour.

RADIODIFFUSION NATIONALE BELGE
Address: Radiodiffusion Nationale Belge à Léopoldville, Congo Belge.
Leading Personalities: Shortwave Service of I. N. R.-Brussels under the same General Direction.
Brussels: Oversea's Director: Mr. F. Zoete. Assistant: Mr. M. Hankard.
Léopoldville: Station Manager: Mr. L. L. Roye.

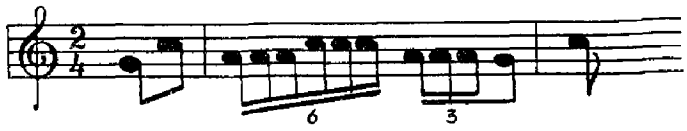
Stations: *Léopoldville,* 50 kW.

OTC5	17768 kc/s	16.88 m	inactive
OTC2	9767 kc/s	30.71 m	

Daily Programmes from:
18.00-19.00: *Dutch.* News. Letters from Listeners. Music. Actual Chronicle. — To Netherlands and South Africa.
19.00-19.30: *Dutch* and 19.15-19.30 *French:* Belgian News. The week in Belgium. To Belgian soldiers in Germany and Belgium all over the world.
19.30-20.30.*English.* News — "Amongst friends" (greetings to Listeners from whom letters are received exc. Sun.) — Music. — Talk or Belgian Feature. — News Summary. — To Great Britain and British Territoires in Africa.
20.30-21.30. *French:* News and Belgian Chronicle. — Music. — News Summary. — Letters from Listeners, To France, Switzerland and French Colonies.
22.00-23.45. *Dutch and French:* News. — Sport. — Light Music. — Information to Seamen. — Letters from Listeners. — To Belgian seamen.
24.00-01.30. *French:* News and Belgian Chronicle. — Music. — Letters from Listeners or Actualities. — Press Summary. To Canada and Latin America.
01.30-01.45. *French:* Repetition of Progr. 19.15-19.30.
01.45-02.00. *Dutch:* Repetition of Progr. 19.00-19.15.
03.00-05.00. *English* to U. S. A.: News. — Feature. — Music.

Announcement: *French:* "Ici Léopoldville, la Radiodiffusion Nationale Belge". —

Interval-Signals: Native xylophone.



Message to Listeners: "The R. N. B. greets listeners all over the world and welcomes their comments and technical reports. Answers by QSL-card and on the air in the feature "Amongst friends".

RADIO CONGO BELGE
(For Listeners in Belgian Congo).
Address: Radio Congo Belge, Léopoldville, Congo Belge.

Leading Personalities: Director: Karel Theunissen on behalf of th Belgian National Broadcasting Service.

Stations: *Radio Congo Belge.*

OTM1	6295 kc/s	47.65 m	3 kW
OTM2	9380 kc/s	31.98 m	7,5 kW
OTM4	11720 kc/s	25.60 m	7,5 kW

Daily Programmes from 05.00-07.00, 10.15-12.00, 16.00-20.00
OTM1 from 05.00-07.00, 10.00-12.00 and 16.00-20.00
OTM2 from 05.00-07.00 and 16.00-20.00
OTM4 from 10.15-12.00

Announcements: In *French* "Ici Radio Congo Belge". In *Flemish* "Hier Radio Belgisch-Kongo".

Interval-Signal: Native drums and xylophone.

Message to Listernes: Reception reports will be gratefully acknowledge and answered by QSL-card.

RADIO COLLEGE, ELISABETHVILLE
Stations: OQ2AC.
7200 kc/s 41.61 m 0,25 kW 3390 kc/s 88.50 m 0,25 kW
Daily Programmes from 16.30-17.00 exc. Sunday.

RADIO CONGOLIA LEOPOLDVILLE
Address: P. O. Box 63, Leopoldville.
Stations: OQ2RC 0,25 kW
15325 kc/s 19.58 m 9210 kc/s 32.57 m 6010 kc/s 49.92 m
Daily Programmes:
17.00-18.00 Music on 15325 kc/s and 6010 kc/s.
18.00-18.30 Progr. in Congolian on 15325 kc/s, 9210 kc/s and 6010 kc/s.

RADIO LEO LEOPOLDVILLE
Stations: OQ2AA.
15170 kc/s 19.77 m 0,25 kW 11730 kc/s 25.57 m 0,25 kW
Daily Programmes: Sundays from 08,30-10.45.

CANARY ISLANDS

Normal Clock Time — G. M. T. minus 1 hour.

Address: Radio Club Tenerife, P. O. Box 225. Santa Cruz de Tenerife, Islas Canarias.

Leading Personalities: President: Mr. Juan Garcia Sanjuan. Vicepresident: Mr. Juan Alvarez Delgado. Secretary: Mr. Enrique Diaz Expósito. Vice-Secretary: Mr. Fernando Torres Romero. Administrator: Mr. Juan Labory Gonzalez.

Stations: Santa Cruz de Tenerife, 0,5 kW.
EA8AB 7267 kc/s 41.28 m

Daily Programmes in *Spanish* from 23.00-24.00.

Announcement: "Estacione EA8AB Radio Club de Tenerife." At opening 22.00: is played a local Melody: "Islas Canarias."

Message to Listeners: "Reports are welcomed and will be answered by QSL card. Return postage should be enclosed. —

EGYPT

Normal Clock Time — G. M. T. plus 2 hours.

Address: Egyptian State Broadcasting, Broadcasting House, Cairo.

Stations:

Cairo I	620 kc/s	483.9 m	20 kW	
Cairo II	1349 kc/s	222.6 m	10 kW	
Alexandria	1122 kc/s	267.4 m	0,5 kW	
Assiut	731 kc/s	410.0 m	0,5 kW	Arabic only
Cairo SUX	7867 kc/s	38.13 m	10 kW	Arabic only
	10055 kc/s	29.83 m	10 kW	Frid. only

Daily Programmes in Arabic on short-wave.
On 38.13 from 18.30-21.00.
On 29.83 from 09.05-11.00 and 13.07-15.00.

Announcement: "This is Cairo calling" in English, French, Greek and in Arabic: "Hona El Kahera".

Interval-signal: Camel bells.

Message to Listeners: Receptions reports to be adressed to Chief. Engineer. Egyptian State Broadcasting Sh. Elwi Cairo.

ETHIOPIA

Normal Clock Time — G. M. T. plus 3 hours.

Address: Radio Addis Ababa Press and Propaganda Dept. Ministry of Pen Addis Ababa. — Studios: 83 Patriots Road.

Stations:

Addis Ababa	9620 kc/s	31.19 m	1 kW

Daily Programmes:

In Amharic:
08.00-10.30 News and Music (Sundays)
11.00-12.00 News and Music (Mon., Tues. and Thurs.)
11.00-11.30 News and Music (Wedn., Fri. and Sat.)
16.30-18.00 Progr. in Amharic, Tigringa and Arabic (Tuesdays)

In Arabic:
14.45-15.00 Oriental Music
15.00-15.15 World News, Talk or Music

In English:
Weekdays: 15.15-15.45: Music, World News (Daily). — 15.45-16.30: Music, Talk or Reading.
Sundays: 15.45-16.00: Hymns You Love.
16.00-16.30: Gospel Half Hour presented by the Missionary Community in Addis Ababa.
17.30-19.00 National Music and News (Saturdays).

FRENCH CAMEROON

Normal Clock Time — G. M. T. plus 1 hour.

Address: Radio Douala, Service Radio Electrique Douala. Cameroon Francais.

Stations: Radio Douala FIA6 7950 kc/s 37.74 m 0,6 kW
9160 kc/c 32.75 m 0,6 kW

Daily Programmes from 18.00-20.00 (21.00 Sundays).
Announcement: "Ici Radio Douala".

FRENCH EQUATORIAL AFRICA

Normal Clock Time — G. M. T. plus 1 hour.

Address: Radio Brazzaville, Poste National Français, Brazzaville.

Leading Personalities: Acting Director: Mr. A. Bazire. Director of Foreign Transmissions: Mr. Louis C. D. Joos. Chief Engineer: Mr. H. Defroyenne. Administrator: Mr. C. Frindel.

Stations: Brazzaville, FZI.

17840 kc/s	16.82 m	7 kW	from 05.00-07.30,
15595 kc/s	19.23 m	50 kW	from 05.00-07.30 and 16.00-01.20
11970 kc/s	25.06 m	50 kW	from 05.00-07.30, 16.00-01.20
9964 kc/s	30.72 m	1,5 kW	from 05.00-07.30, 10.00-12.45
9440 kc/s	31.78 m	7 kW	from 05.00-07.30
6024 kc/s	49.80 m	1,5 kW	from 16.00-01.20

Daily Programmes from 05.00-07.30, 10.00-12.45 and 16.00-01.20.

(E. means to Europe, N. E. to Near East, Ea. to East, A. to America.)

05.00	News, French. E.	18.25	Songs.
05.30	News, English. A.	18.45	News, English. E.
05.45	Music (Sun.: Religious Music.	18.45	News, Portuguese. E.
		19.00	News, French E.
06.00	News, French. E.	19.10	Symphony.
06.25	Music.	20.00	News, French. E.
07.00	News, French. E.	20.25	Dance Music.
09.00	Music. (Sun.).	20.30	News, Swedish.E.*)
10.00	Music.	20.45	News, English. E.
10.15	News, French. N. E.	21.00	News, French. E.
10.30	Chamber Music.	21.20	Music.
11.00	News, French Ea.	22.05	News, French. A.
11.25	Folkmusic or -song.	22.15	News, English. A.
12.00	News, French. Ea.	22.30	Chamber Music or Opera.
12.15	News, English. Ea.		
12.30	"Programme recreatif".	22.30	Music.
		23.00	News, French. A.
15.00	Music. (Sun.).	23.30	News, Portuguese. A.
16.00	Opera or Symphony.	00.00	News, English. A.
17.25	Variety.	00.15	News, French. A.
18.00	News, French. E.	00.35	Music.

*) the third Wednesday in every month.

Highlights of Programmes:

"La France d'Outre Mer": 18.30 and 21.30 every Tuesday and Friday.

"Chansons francaise": 18.25 every Sunday and Wednesday.

Transmissions from Paris: 11.30, 17.30 and 22.30 every Thursday.

"Mailbag Programme": 12.30 every Tuesday. Answers to letters from listeners written in English from all parts of the world.

Other programmes consist of light and classical music.

Announcement: In *French:* "Radio Brazzaville, Poste National Francais." In *English:* "Radio Brazzaville, the French National Broadcasting Station in Africa." As a special identification, the station uses between the various programmes the "Marche Lorraine", General de Gaulle's favourite march.

Interval-Signal: When the station switches over from one direction to another is used a call signal of five different notes, played on a native instrument (Kisanzi) consisting of several vibrating iron bars attached to a wooden box. *"Signature Tune",* some movements of "Marche Lorraine".

Message to Listeners: Reports answered by QSL card.

GAMBIA

Normal Clock Time — G. M. T.

Address: Electrical Branch. PUD Bathurst.
Stations: ZDJ4 Radio Gambia 9530 kc/s 31.48 m 3 kW

Daily Programmes: From 22.15-22.30.

GOLD COAST COLONY

Normal Clock Time — G. M. T.

Address: Broadcasting Department. Accra, Gold Coast Colony.

Leading Personalities: Acting Superintendent of Broadcasting: Mr. J. W. Foster. Senior Programmes. Officer: Mr. E. E. Frewin.

Stations: Accra ZOY.
4915 kc/s 61.04 m 5 kW and 7295 kc/s 41.11 m 1,3 kW

Daily Programmes from 10.30-12.00 and 15.28-18.00.
10.30 Gold Coast News in English.
15.55 Ashanti Drums followed by Announcement.
16.00 News and Music in the various languages of the Gold Coast, Ashanti and Northern Territories i. e. Ewe, Twi, Fanti and Ga. —
17.45 Gold Coast News in English

Announcement: "This is ZOY Accra in the Gold Coast Broadcasting on 41.1 and 61.04 Metres.

GUINEA (Portuguese)

Normal Clock — G. M. T. plus 1 hour.

Address: Radio Bissau Portuguese, Guinea.

Stations: Emissora de Guine.
CQM7 7948 kc/s 37.75 m 1 kW

Daily Programmes in *Portuguese* from 21.30-23.00.

Announcement: "Aqui Bissau".

Interval Signal: Guitar Music.

KENYA

Normal Clock Time — G. M. T. plus 3 hours.

Address: Cable and Wireless Ltd., Electra House Kabete, P. O. Box 777, Nairobi.

Leading Personalities: Manager: Mr. E. G. Garneys. Director of Programmes: Mr. G. C. Kenworthy. Deputy Director of Programme: Mr. R. Coltart. —

Stations: Nairobi, VQ7LO, 1,5 kW.

4885 kc/s	61.41 m	English
6060 kc/s	49.50 m	Indian and Vernaculars

Daily Programmes in English:
From 10.00-11.00, 15.00-19.00 (20.00 Wedn. and Sat.)
Saturdays: 11.00-11.15.

	16.10 Progr. Preview. Local News
10.30 Progr. Preview	
15.00 Music	18.00 BBC News
16.00 BBC News	18.10 News

Announcement in *English:* "This is Nairobi Broadcasting Station of Cable & Wireless Ltd. calling on wave lengths of 350 and 61.41 m. —

Message to Listeners: Reports answered by letter. Return postage should be enclosed. —

MADAGASCAR

Normal Clock Time — G. M. T. plus 3 hours.

Address: Radio Tananarive. The Office of the French High Commissioner. Tananarive, Madagascar.

Leading Personalities: Director: Mr. R. Bergeaud.

Stations: Radio Tananarive.

FIQA	4370 kc/s	68.65 m	0.5 kW
	7409 kc/s	40.68 m	0,5 kW
	6137 kc/s	48.88 m	1.2 kW
	9693 kc/s	30.95 m	0.35 kW
	10615 kc/s	28.26 m	0.25 kW
	12126 kc/s	24.74 m	5 kW

Daily Programmes in *French:*
Mondays to *Thursdays* from 03.50-05.15, 08.20-10.45 and 14.20-18.45.
Fridays from 03.55-05.30, 07.30-10.45 and 14.20-18.45.
Saturdays from 03.55-05.30, 08.20-11.00 and 14.00-18.45.
Sundays from 04.45-08.00, 08.30-11.00 and 13.30-19.00.
News in French: 04.00, 04.30, 05.00, 09.30, 10.30, 15.30, 17.30 and 18.30.
Relay from Paris: Daily 15.45.
Highlights of Programmes:
Symphony Concert: Mondays at 16.30 — Wednesdays at 10.00.
Letters from Listeners: Fortnightly Wednesdays at 17.45. —

Announcement: "Ici Radio Tananarive" in French, Malgache and Comorien.

Interval-Signal: Musical notes played on the Malgache guitar.

MOROCCO (French)

Normal Clock Time. — G. M. T.

Address: Radio Maroc, Immeuble des P. T. T., Rabat.

Leading Personalities: Director General: Mr. Jean Arnaud. Chief of News Dept.: Mr. Paul Peyre. Director for French Programmes: Mr. Robert Barras. Director for Arabic Programmes: Mr. F. Goussé. Chief Engineer: Mr. Francois Goure. Chief of Administration: Mr. Grolleau. General Secretary of Administration: Mr. Lestage.

Stations:

Network A.	Rabat I	601 kc/s	499.2 m	20 kW
Network B.	Rabat II	868 kc/s	345.2 m	1 kW
	Casablanca	1004 kc/s	298.8 m	1 kW
	Fes	1086 kc/s	276.0 m	1 kW
Short-wave.	Rabat	6006 kc/s	49.95 m	2,5 kW
	Rabat	9082 kc/s	33.03 m	2,5 kW
	Rabat	16666 kc/s	18.01 m	2,5 kW

Daily Programmes on Medium-Wave:

Nework A:	*Network B:*
07.00-08.30 French	07.00-08.30 Arabic
08.30-08.45 Arabic	12.00-13.00 Arabic
12.00-12.15 Spanish	13.00-14.30 French
12.15-13.45 French	19.00-19.30 Spanish
13.45-15.00 Arabic	19.30-21.00 Arabic
18.00-21.00 French	21.00-23.30 French
21.00-23.30 Arabic	

Daily Programmes on Short-Wave 49.95 m:
(A = Network A, B = Network B)

07.00-08.00 French (A)	08.00-08.45 Arabic (B)
12.00-12.15 Spanish (A)	12.15-13.00 Arabic (B)
13.00-14.30 French (B)	19.00-19.30 Spanish (B)
19.30-21.00 Arabic (B)	21.00-23.30 French (B)

News in French at 07.00 (A), 08.00 (A), 13.00 (A+B), 18.30 (A), 20.00 (A) and 23.30 (B).
News in Spanish at 12.00 (A) and 19.00 (B).

Highlights of Programmes:
Symphony Concert: Monday at 19.00 (A), Tuesday and Friday at 12.30 (A), Wednesday at 18.30 (A).

Request Concert: Daily 07.25 (exc. Sund.) (A).
Cabaret: Saturday at 21.00 (B).
Play: Friday at 21.00 (B).

Announcement "Ici Radio Maroc".

Interval-Signal: At opening and closing of transmissions: "Marseillaise" and "Hymne Cherifien". Before the News: Fragment of "Samson and Dalila" by St. Saëns.

Message to Listeners: Reports are answered by QSL-card.

MOROCCO (Spanish)

Normal Clock Time — G. M. T. plus 1 hour.

RADIO TETUAN

Address: Radio Tetuan, Calle O'Donell 11, Tetuan.

Stations: Radio Tetuan EA9AH
6067 kc/s 49.45 m 20 kW

Daily Programmes in Spanish from 07.30-08.00, 13.30-15.00 and 19.30-23.00.

Daily Programmes in Arabic: *Weekdays* from 18.00-19.30. Occasionally Arabic programmes from 23.00-00.00.

Announcement: "La Voz de Espana en Africa."

MAURITIUS

Normal Clock Time — G. M. T. plus 4 hours.

Address: Mauritius Broadcasting Service, Forest Side, Mauritius.

Leading Personalities: Officer i/c Broadcasting Service, Mr. R. H. Ardill, P.R.O., Manager M.B.S., Mr. C. de Chazal; Senior Programme Assistants, Messrs. Claude Tyack and Max Moutia; Senior Technical Assistant, Mr. N. Rambert.

Stations: Forest Side.
V3USE 7143 kc/s 42 m 0,05 kW

Daily Programmes: *Weekdays* from 03.00-04.15, 08.15-09.30, 13.00-14.00 and 15.00-17.30. *Sundays* from 06.15-07.45, 13.00-14.00 and 15.00-17.30.

Announcement: In *French:* "Ici le Poste de l'Ile Maurice". In *English:* "This is the Mauritius Broadcasting Service".

Station Signature Tune: The march "The Thin Red Line".

MOZAMBIQUE

(Portuguese. East-Africa)

Normal Clock Time — G. M. T. plus 2 hours.

RADIO CLUBE DE MOZAMBIQUE

Address: Radio Clube de Mozambique, P. O. Box 594, Lourenco Marques, Colonia de Mozambique.

Leading Personalities: President: Cap. Antonio dos Santos Figueiredo. Committee Members: Arthur Meirim, Henrique Rodrigues, Viana Rodrigues, Augusto Gonçalves, Joao Rodrigues Branco.

Stations: *Lourenco Marques.*

CR7BE	9715 kc/s	30.86 m	7,5 kW
CR7BJ	9653 kc/s	31.08 m	10 kW
CR7BU	4925 kc/s	60.91 m	7.5 kW
CR7BV	4855 kc/s	61.75 m	7,5 kW
CR7AB	3490 kc/s	85.96 m	0,6 kW

DAILY PROGRAMMES IN PORTUGUESE:
For the Colonies of Mozambique, Angola and Portugal. On *Weekdays* from 05.00-06.00, 09.30-11.30 and 16.00-20.20 on 31.08 m and from 16.00-20.00 on 60 m.
On *Sundays:* from 09.00-12.00 on 31.08 m and from 16.00-20.00 on 60 m.
News at 05.15 (weekd.), 10.30, 17.00, 18.25 (weekd.) and 19.45 (weekd.).

Highlights of Programmes: *Request Programme:* Sundays at 09.00. — *Symphony:* Sundays at 19.00. — *Variety:* Tuesdays and Fridays at 18.30. — *Greetings for Portugal:* Thursdays and Saturdays at 21.10.

DAILY PROGRAMMES IN ENGLISH AND AFRIKAANS: For the Union of South Africa, Rhodesia, Nyassaland and Belgian Congo.
Weekdays: 05.00-08.00 and 12.00-15.00 on 30.86 m and 15.00-21.00 on 60.91 and 85.96 m.
Sundays: 07.00-15.00 on 30.86 m and from 15.00-21.00 on 60.91 and 85.96 m.

Highlights of Programmes in English:
Requests: Saturday, Sunday and Monday at 12.00.
Concert Hall: Sunday at 17.30.
Variety: Monday at 19.00.
Passing Parade: Saturday at 18.00.

Announcement:
In *English::* Half hourly and quarter hourly: Four chimes followed by announcer saying; "Lourenco Marques for happy listening on the . . . metre bands".
The opening music in both programmes, is an African melody exclusive to this station: "Dança Negra". Close down with the Portuguese National Anthem: "A Portuguesa".

Message to Listeners: "Reports will be very much appreciated and answered by QSL-card."

EMISSORA DO AERO CLUBE DA BEIRA

Address: Emissora do Aero Clube da Beira, Caixa Postal 3, Beira.

Leading Personalities: President: Dr. E. Rebeiro de Brito, Vice-President: Dr. Tomé dos Santos Junior.

Stations:

CR7IB	7199 kc/s	41.68 m	0,3 kW
CR7IC	3498 kc/s	85.76 m	0,1 kW

Daily Programmes on 7199kc/s.
Weekdays from 09.45-10.45 and 18.00-20.00.
Sundays from 09.00-12.00 and 17.00-20.00.
Message to Listeners: Reports are answered by QSL-card.

REUNION (French Colony)

Normal Clock Time — G. M. T. plus 4 hours.

Address: Radio Denis, Radio diffusion Française, St. Denis.

Stations: Radio St. Denis
7170 kc/s 41.84 m 0,2 kW
4797 kc/s 62.54 m 0,2 kW

Daily Programmes in *French* from 03.00-03.30 and 13.45-14.30.

NORTH RHODESIA

Normal Clock Time — G. M. T. plus 2 hours.

Address: Information Officer, POB 209, Northern Rhodesia Broadcasting Station, Broadcasting House, Lusaka.

Leading Personalities: Programming and Production: Mr. Spencer Swaffer. Engineering and Transmitting: Mr. John W. Murray.

Stations: Lusaka ZQP

3914 kc/s	76.60 m	5 kW
7220 kc/s	41.55 m	0,5 kW
9705 kc/s	30.91 m	2,5 kW

Daily Programmes:
Weekdays: 09.00-10.30 and 15.0-17.00.

Announcement: "This is the Northern Rhodesia Broadcasting Station in Lusaka".

Interval-Signal: Beating on African Drums.

Message to Listeners: Reports are answered by QSL-card.

SOUTHERN RHODESIA

Normal Clock Time — G. M. T. plus 2 hours.

Address: Broadcasting House, Manica Road, Salisbury.

Stations:

Salisbury ZEA	3658 kc/s	82.01 m	1 kW
Umtali (Day)	6120 kc/s	49.02 m	1.5 kW
Gwelo (Night)	3320 kc/s	90.36 m	1.5 kW
Bulawayo ZEB	3800 kc/s	78.95 m	1 kW

Daily Programmes i *English* on all frequencies:
Weekdays from 09.30-11.15 and 16.00-20.00
Sundays from 08.30-11.15 and 18.00-20.00

Announcement in *English:* "This is Southern Rhodesia".

Interval-Signal: Recorded peals of church bells.

Message to Listeners: Reports answered by letter. Postage unnecessary.

SENEGAL (Africa Occ. French)

Normal Clock Time — G. M. T.

Address: Poste Federal de Radio Dakar, Dakar.

Stations:

FZK6	6917 kc/s	43.37 m	1,2 kW
FHE3	11712 kc/s	25.61 m	12 kW

Daily Programmes in *French:*
Weekdays: 07.00-07.30, 12.15-13.30 and 18.30-22.00 (Sat. 23.00).
Sundays: 07.00-07.30, 11.00-14.00 and 18.00-23.00.

07.00	News, Progr. Preview	19.50	Music
12.15	Music	19.58	Progr. Preview next day
12.30	News		
12.50	Music	20.15	Chronicle about Africa
12.58	Programme Preview	20.20	Music
19.00	Music	21.15	News Summary
19.30	Information in French	21.20	Dance Music

Highlight of Programmes:
Native Songs: Tuesdays 19.45-20.15.
Symphony Concert: Fridays 20.50-21.50.
Cabaret: Saturdays 21.00-21.50.
Letters from Listeners: Sundays 20.00.

Announcement: Opening at 07.00, 12.15 and 18.30 with a continuous three note signal on a flute-like instrument for 15 minutes. Thereafter at 07.15 is played. "Hymne de l'infanterie de Marine" and the following announcement in French: "Ici Radio Dakar, emettant sur 25.61 et 43.37 de longueur d'onde.

SOMALILAND (British)

Normal Clock Time — G. M. T. plus 3 hours.

Address: Information and Broadcasting Department, Government Headquarters, Hargeisa.

Leading Personalities: Director of Public Relations: Mr. E. J. Seaward.

Station: Radio Somali Hargeisa.
VQ6MY 7120 kc/s 42.13 m 1 kW

Daily Programmes in *English* and *Somali* from12.30-15.00. Sundays no broadcast

Announcement: "This is Radio Somali".

Message to Listeners: Reports answered by letter.

TANGIER

Normal Clock Time — G. M. T.

RADIO INTERNATIONAL
Address: Radio International Sociedad Africana de Radiodifusion S. A., 54 Goya Street, Tangier.

Leading Personalities: President: Mr. Antonio Garriques and Diaz Canabête. Vice-President: Mr. Virgilio Onate Sanches. Secretary: Mr. Lucien Bensimhon. General Manager: Mr. Herbert Rutledge Southworth. Administrator: Mr. Aladino Cuetos Martinez. Chief Engineer: Mr. Jesus Martin Córdova.

Stations: Radio International.

1238 kc/s		242 m	10 kW
6215 kc/s	ZRB	48.27 m	1 kW

Daily Programmes in four languages French, Spanish, Arabic and English.

Arabic from 12.30-13.00 and 19.00-20.00.
English from 13.00-13.30 and 20.00-20.30.
Spanish from 13.30-13.45, 21.00-21.30 and 21.45-22.00.
French from 12.00-12.30, 13.45-14.00, 20.30-21.00 and 21.30-21.45.

Interval-Signal: Moroccan Music.

Message to Listeners: Reports answered by QSL-card.

SOCIEDAD AFRICANA PUBLICITARIA Y COMERCIAL S. A.
Address: 39, Calle Shakespeare, Tangier.
Leading Personalities: General Manager: Sr. D. Georges Dahlqvist. Director of Programmes: Sr. D. Herminio Blanco. Technical Director: Sr. D. Sebastian Más.

Stations: Radio Africa.

7080 kc/s	42.37 m	1 kW
14280 kc/s	21.01 m	1 kW

Daily Programmes in Spanish, French and Arabic from 13.00-16.00 and 19.00-22.00.
Every Friday at 20.10 Arabian Music.
Daily at 13.10 and 21.05: Request Concert.
Programmes consist mainly of music.

Message to Listeners: Reports answered by letter.

UNION OF SOUTH AFRICA

Normal Clock Time — G. M. T. plus 2 hours.

Address: South African Broadcasting Corporation, P. O. Box 8606, Johannesburg.

Leading Personalities: Chairman of the Board of Governors: Dr. H. S. Pellissier. Director-General: Mr. G. D. Roos. Deputy Director-General: Mr. N. L. Filmer. Chief Accountant: Mr. R. C. Strike. Controller of Programmes: Miss G. Dickson. Chief Engineer: Mr. W. Hilarius. Programme Directors: Mr. W. P. van der Berg and Mr. H. E. Dawes.

STATIONS: "A" Programme: English. — "B" Programme: Afrikaans.

Transvaal Division:
Johannesburg III, 5 kW. Programme "B"
3450 kc/s 86.97 m inactive
4895 kc/s 61.28 m Daily: 15.50-21.05
6007 kc/s 49.95 m Weekdays: 04.45-06.30, Sun.: 05.55-06.10
9523 kc/s 31.51 m Weekdays: 08.15-12.10, 14.00-15.40
Sundays: 08.15-15.40
11710 kc/s 25.62 m inactive
Johannesburg IV, 1 kW. Programme "A"
4800 kc/s 62.5 m Weekdays: 04.45-06.30 and 16.20-21.05
9870 kc/s 30.40 m Weekdays: 08.15-12.10, 14.00-16.10
Sundays: 08.15-15.50
Johannesburg V, 0.2 kW. Programme "A"
4373 kc/s 68.60 m. All sessions.

Cape Division:
Cape Town III, 5 kW. Programme "B"
5880 kc/s 51.0 m *Weekdays:* 08.15-12.10. *Sundays:* 05.55-06.10. *Daily:* 17.00-21.05.
9610 kc/s 31.20 m *Weekdays:* 08.15-12.10, 14.00-16.45
Sundays: 08.15-16.45

Natal Division:
Pietermaritzburg II, 0.2 kW. Programme "B"
4878 kc/s 61.50 m All sessions.

Bechuanaland:
Mafeking, 0.2 kW 5900 kc/s 50.85 m

Usual Session Times:
Weekdays: 04.45-06.30, 08.15-12.10 and 14.00-21.05
Sundays: 05.55-06.15, 09.00-21.05 (A) and 08.00 or 08.30-21.05 (B)

Announcement: Various opening announcements are given in both English and Afrikaans. These announcements invariably include the names of the transmitting stations in the chain. Before each news service and any special announcements the initial letters of the chain or groups are given in morse.
Message to Listeners: Listener-reports are acknowledged.

NEAR EAST

BAHREIN ISLANDS (Persian Golf)

Normal Clock Time — G. M. T. plus 3 hours.

Station: "Radio Bahrein", Manama.
7075 kc/s 42.40 m.

Daily Programmes: From 15.00-16.30 (Sat. and Sun. 17.00). Programmes consists of news in Arabic and Persian, Koran readings, oriental and western music.

Announcements are made in Arabic and Persian, closing announcement also in French.

CYPRUS

Normal Clock Time — G. M. T. plus 2 hours.

NEAR EAST ARAB BROADCASTING STATION

Addres: P. O. Box 219, Limassol, CYPRUS

Leading Personalities: Director: Mr. F. W. Benton, Chief Engineer: Mr. A. W. Dean.

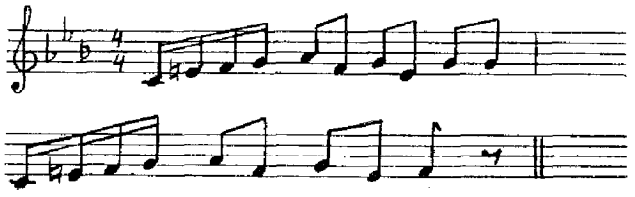
Stations: Sharq al Adna, 7,5 kW.

ZJM3	3320 kc/s	90.36 m			
ZJM4	6135 kc/s	48.90 m	ZJM8	9650 kc/s	31.09 m
ZJM5	6170 kc/s	48.62 m	ZJM7	11720 kc/s	25.60 m

Daily Programmes in *Arabic* from 03.55-06.35, 10.30-15.00 and 15.45-20.15.
On 90.36 m and 48.90 m from 03.55-06.35 and 15.45-20.15.
On 48.62 m and 31.09 m from 03.55-06.35, 10.30-15.00 and 15.45-20.15.
On 25.60 m from 10.30-15.00.
News in Arabic at 04.00, 05.30 and 06.00.
Press Review at 11.30 and 12.30 — also 18.30.
News dictation speed at 16.00 and 16.15.

Announcement: "Mahhattat a sharq al adna" (Arabic).

Interval signal: Arabic music played on stringed instrument:



Message to Listeners: Reports are answered by QSL cards.

IRAN

Normal Clock Time — G. M. T. plus 3½ hours.

Address: Director General Wireless Dept.: Ministere des Postes, Telegraphes et Telephones, Teheran.

Leading Personalities: Head of Wireless Dept.: Engineer H. Samiy.

Stations: *Radio Teheran.*

EQA	895 kc/s	354 m	7 kW
EQC	9680 kc/s	30.99 m	7 kW
EPB	15100 kc/s	19.87 m	14 kW

Daily Programmes from Radio Teheran on short-wave.
11.20-15.00 on 30.99 and 19.87 m
16.30-21.30 on 30.99 and 19.87 m

11.00 Russian	11.45 French
11.15 English	14.20 French
11.30 Arabic	14.45 English
11.38 Turkish	18.15 French and English

Message to Listeners: "We appreciate individual reports, which will be verified immediately."

REGIONAL BROADCASTING STATIONS

Radio Tabriz, Azerbajan
11960 kc/s 25.08 m 10.00-11.00
6092 kc/s 49.25 m 15.00-18.30

Daily Programmes in Persian, Arabic, French, Russian and English.

Khoramabad, Luristan
6845 kc/s 43.83 m from 16.30-17.30 (only Wednesdays and Sundays).

Interval signal: An oriental melody played on flute at 16.25.

Announcement: "Here Khoramabad, regional transmitter for the province of Luristan".

Shiras, Fars
7960 kc/s 37.69 m from 16.30-17.30 (only Mondays and Thursdays).

Interval signal: Bugle call before progr. starts. Clock striking 8 o'clock at 16.30, followed by Persian national anthem.

IRAQ

Normal Clock Time — G. M. T. plus 3 hours.

Address: Iraq Government Broadcasting Station Radio Baghdad, Iraq.

Leading Personalities: Director: Mr. Husain Al-Rahhal, LL. B., News Editor and Announcer: Mr. Kadhim Al-

Haideri. Director of the Education and Talks' Section: Mr. Abdul Kareem Mahmood.

Stations: Radio Baghdad, HNA.

767 kc/s	391.1 m	0,5 kW
7092 kc/s	42.30 m	0,5 kW
7062 kc/s	42.48 m	0,5 kW

Daily Programmes in *English* and *Kurdish* on 42.48 m. Two hours in the evening programme in Kurdish. — *News* at 16.30. — One hour in the night a western-music programme. — *English News* at 17.35 (Tues. and Sat.)
It is the intension to increase the two additional services, and add to them Turkish and Persian.

Daily Programmes in *Arabic* on 391 m and 42.30 m.
From 03.00-05.30 and 15.00-19.10.
News at 04.00, 15.00, 17.00 and 19.00.

Interval Signal: Gentle chirps of a mechanical nightingale.

LEBANON

Normal Clock Time — G. M. T. plus 2 hours.

Address: Emissions francaises de Radio-Liban, Ecole Superieure des Lettres, Beyrouth.

Leading Personalities: Director of Broadcasting: M. Maurice La Coutre.

Stations: Beyrouth.

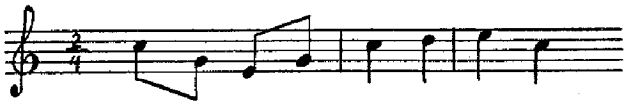
Beyrouth	730 kc/s	411 m	4 kW
Beyrouth	8036 kc/s	37.34 m	5 kW

Beyrouth shortwave-station (100 kW) is under construction.

Daily Programmes:
05.45-06.00 (Sun. 06.30-06.40) on 411 m and 37.34 m.
News in Arabic at 05.45, 06.30 (Sun.), 11.30, 19.00.

Announcement: After five minutes of the Station's "Special Signal", the Lebanese National Anthem is played. The announcer opens the broadcasts with: "Hona Beyrouth. Mahatat al Izaa al Lubnaniat".
In *French:* Ici Beyrouth. Station de Radiodifusion de la Republique Libanaise.
In *English:* This is the English Programme of the Lebanese Broadcasting Station in Beirut.

Interval-Signal:



Message to Listeners: Reports are answered by QSL cards.

THE STATE OF ISRAEL

Normal Clock Time — G. M. T. plus 2 hours.

KOL-YISRAEL

Address: Department of Information, Ministry of the Interior, Tel Aviv.

Stations:
"Kol-Yisrael". 6835 kc/s 43.89 m.

Daily Programmes: From 03.45-05.30, 09.30-11.15 and 15.30-19.35.

03.45 Prayer Exercise	11.00 News in Arabic
04.00 News in Hebrew	16.30 Forces Programme
04.15 Music	17.15 News in Hebrew
05.00 News in Arabic	17.30 Music
09.30 Forces Programme	18.45 Arabic Programme
10.00 Music	19.15 News in English
10.30 News in Hebrew	19.30 News in Hebrew
10.45 News in English	

Highlights in Programme: *Classical Music* Fridays 17.30, Saturdays 15.30.

Announcement: In *Hebrew:* "Atem Ma'asinim le Kol-Yisrael". In Arabic: "Mahattat Israil". In English: "This is Kol-Yisrael, the Broadcasting Station of the State of Israel."

REGIONAL STATIONS: (the "Haganah" network)

Jerusalem	8100 kc/s	37.04 m
Tiberias "Kol-Ha-Galil"	6990 kc/s	42.92 m
Tel Aviv "Kol-Ha-Haganah"	6950 kc/s	43.17 m
Haifa "Kol-Ha-Tsafon"	6500 kc/s	46.15 m
"Kol-Ha-Negev"	3800 kc/s	78.95 m

SYRIA

Normal Clock Time — G. M. T. plus 2 hours.

Address: Damascus Broadcasting Station, Baghdad St., Damascus.

Leading Personalities: Director General: Mr. Tawfic Hayany, Assist. Director: Mr. Yousee Kannani, Director of Programmes: Mr. Fouad Shayeb.

Stations: Damascus.

592 kc/s	506.8 m	2 kW
6000 kc/s	50.00 m	0,5 kW
7500 kc/s	40.00 m	0,5 kW
12000 kc/s	25.00 m	0,5 kW

Three short-wave stations are projected with a power of 20 kW and 7,5 kW.

Daily Programmes: In *Arabic* from 05.00-06.00, 11.30-12.30 and 16.30-21.00.
News at 05.30, 11.45, 17.45, 19.50 and 20.50.
Classical Music at 12.15 and 20.15.

Announcement: "Huna Dimashk" means "Damascus calling".

Interval Signal: 400 c/s whistle.

Message to Listeners: "Reports are answered by a verification letter. In the near future we will broadcast news in English, French and other languages."

TURKEY

Normal Clock Time — G. M. T. plus 2 hours.

Address: Turkish Press Department, Radio Branch, Ankara.

Leading Personalities: Director General of the Turkish Press Publicity and Broadcasting: Mr. Nedim Veysel Ilkin. Director of Radio Branch: Mr. Cevat Menduh Altar. Director of Technical Branch: Mr. Ibrahim Sükrü Esgün. Director for Ankara Radio: Mr. Nejad Saner.

Stations: *Radio Ankara.*

TAR	182 kc/s	1648 m	120 kW
TAP	9465 kc/s	31.70 m	20 kW
TAQ	15195 kc/s	19.74 m	20 kW

DAILY PROGRAMMES IN TURKISH FROM TAR

Weekdays from 05.30-07.00, 10.30-12.00, 16.00-21.00.
Sundays from 05.30-12.00, 16.00-21.00.

Highlights of Programmes:
Symphony Concert: Sunday 19.15, Tuesday 19.30 and Saturday 10.30.

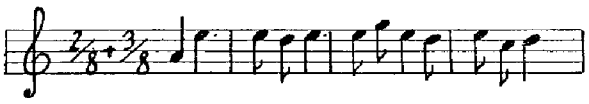
DAILY PROGRAMMES ON SHORT-WAVE
TAQ: *Weeksdays* from 10.30-12.00 (Sat. 13.00).
On *Sundays* from 09.45-12.00.
10.30: Relay TAR. 11.15: Turkish News. 11.30: Relay TAR.

TAP: Daily from 16.00-21.00.

16.00 News, Urdu	18.30 News, Greek
16.15 News, Persian	18.45 News, Rumanian
16.30 News, Arabic	19.00 News, Serbo-Croat.
17.00 News, Turkish	19.15 News, Bulgarian
17.15 Radio Gazette in Turkish	19.30 News, German
	19.45 News, Hungarian
17.45 News, English	20.00-21.00 News in Turkish and National Progr.
18.00 News, French	
18.15 Journal Parlé	

Announcement: TAR in Turkish: "Turkiye radyosu". *Short-wave* in Turkish: "Ankara radyosu". In English: "This is Ankara".

Interval-Signal:



Message to Listeners: Reports are verified by QSL-card.

EAST

BURMA

Normal Clock Time — G. M. T. plus 6½ hours.

Address: Burma Broadcasting Service, Rangoon.

Leading Personalities: Director U. Khin Zaw.

Stations: *Rangoon,* 7,5 kW.
9540 kc/s 31.44 m (except Monday) 6035 kc/s 49.71 m

Daily Programmes in *English:*
On 31.44 m from 01.15-01.30 and 06.15-06.45 (exc. Mond.)
On 49.71 m from 06.15-06.45 (exc. Mond.). 14.15-15.15
News at 01.25, 06.30 and 15.00. *Music* at 01.15, 06.15 14.15. — *Programme Preview* for next day 15.13.

Highlights of Programmes:
Classical Music: Sundays 14.15
The Voice of Burma: Thursdays 14,45
Listeners' Request Music: Wedn. and Fri. 14.30
Local Artists: Mon. and Sat. 14.30

Announcement: "This is the Burma Broadcasting Service, Rangoon".

Interval-Signal: *English programmes:* Signature tune: Eric Coates': "Calling All Workers". Interim tune between programme and news: Rossini's Ouvt. to "The Thieving Magpie". After the news: "Shepherd's Dance" from Beethoven's "Pastoral Symphony". Close down at 15.15 with Burmese National Anthem.
Burmese Programmes: Signature tune: Burmese oboe, gongs and drums.

CEYLON

Normal Clock Time — G. M. T. plus 5½ hours.

RADIO SEAC

Addres: Radio Unit FAR EAST, Forces Broadcasting Service, 191, Turret Road, Colombo, Ceylon.

Leading Personalities: Station and Programme Director: Major Alexander Moyes (seconded from BBC). Chief Engineer: Mr. Edward Bonong (seconded from BBC).

Stations: Radio SEAC, Ceylon.

17770 kc/s	16.68 m	7,5 kW
17730 kc/s	16.92 m	7,5 kW
15120 kc/s	19.84 m	100 kW
9520 kc/s	31.51 m	1 kW
6075 kc/s	49.38 m	1 kW
3395 kc/s	88.30 m	1 kW

Daily Programmes:
Mondays to Fridays: 04.30-06.45, 10.30-16.20.
Saturday and Sunday: 00.30-06.45, 10.30-16.20.
Special Programmes on Sundays: 18.30-20.30.

00.30 Music (Sat., Sun.)	11.00 News (BBC)
01.00 News (Sat., Sun.)	12.15 Popular Requests
02.00 Progr. summary (Sat., Sun.)	13.00 News (BBC)
	14.00 Radio Newsreel (BBC)
05.15 Classical Music	16.00 News (BBC)
06.00 News (BBC)	16.10 News Analysis (BBC)
06.40 Progr. summary	16.15 Progr. summary

12.00-12.15 (daily) Ceylon Forces Programme on 16.92 m.

Highlights of Programmes.
"Heard Melodies are Sweet" Classical requests: Mondays and Thursdays at 12.15, repeated on Tuesdays and Fridays at 05.15.
"SEAC Theatre": Every Thursday at 14.15.
Symphony Concerts: Sundays at 14.15. Wednesdays at 14.15.
Jazz and Swing: Sundays at 11.15, Thursdays at 11.45, Saturdays at 11.15, Mondays at 13.30.
Magazine Programmes: Fridays at 13.30.
Opera Hour: Mondays at 14.45.

Special Broadcasting for United Kingdom
18.30-20.30 (Sund. on 16.88 m and 19.84 m. It can be heard by local listeners on 31.51 m, 49.38 m and 88.30 m.

Forces Educational Broadcasts on Mondays, Wednesdays, and Fridays at 11.45-12.00 on 16.92 m.

Announcement: "This is Radio SEAC, Ceylon". Close down with National Anthem.

Signature Tune: "Strike up the Band".

Interval Signal: "Strike up the Band" played as "glockenspiel" motif.

Message to Listeners: Radio SEAC welcomes reports from professionals and amateurs wherever their location, and undertakes to send a prompt and grateful Q. S. L.

COLOMBO BROADCASTING

Address: Colombo Broadcasting Service, Telecommunication Department of the Government of Ceylon, Colombo.

Station: Colombo ZOH 4900 kc/s 61.23 m 11 kW

Daily Programmes: Weekdays from 02.00-03.30, 05.30-08.30 and 10.30-17.00. Sundays from 02.00-08.30 and 10.30-17.00.
02.30 News from All India Radio
02.45 Sinhalese Music. (Weekdays)
03.00 Tamil Music. (Weekdays)
03.30 Religious Service. (Sundays)
06.30 Hindustani Music. (Weekdays)
07.00 Western Music
07.50 News in English
11.00 News from BBC. (Sundays)
13.50 News in English. (Weekdays)
15.00 Symphony Concert. (Sundays)
16.00 News from BBC

Announcement: "This is Colombo Ceylon calling on ZOH for home on 428.6 m (700 kc/s) and 61.29 m (4900 kc/s)"

Interval-Signal: Assortment of tunes.

CHINA

East China: Normal Clock Time — G. M. T. plus 8 hours.
West China: Normal Clock Time — G. M. T. plus 7 hours.

Short Wave Stations of the Central Broadcasting in Nanking:

XGOA	5918 kc/s	50.69 m	7,5 kW
XLRA	6054 kc/s	49.55 m	1 kW

From Radio Macassar Celebes, Indonesia: Leader of Javanese Gamelon-orchestra Mr. Ki Sosrohoetomo.

The English Announcer Radio Saigon: Miss Eileen Griffin. Head of English Department Radio Saigon: Mr. Pipon. (See Indochina)

PEIPING
TAI-PEI
TOK
NANKING
SHANGHAI
KWEICHOW
DELHI
CHUNGKING
HONG-KONG
CALCUTTA
MACAU
BOMBAY
RANGOON
BANGKOK
MANILA
MADRAS
SAIGON
LABUAN
COLOMBO
KUALA LUMPUR
MEDAN
SINGAPORE
SOERAB.
MACASSAR
BATAVIA
BANDOENG
KRAUSE

map East Radio Macassar Celebes Ki Sosrohoetomo Radio Saigon Indochina Mr. Pipon Eileen Griffin

XUPB	6130 kc/s	48.94 m	0,5 kW
XGOY	6140 kc/s	48.86 m	35 kW
XPRA	6404 kc/s	46.85 m	1 kW
XPPA	7000 kc/s	42.86 m	10 kW
XGOY	7153 kc/s	41.94 m	10 kW
XURA	7223 kc/s	41.53 m	3 kW
XOPB	9552 kc/s	31.41 m	0,4 kW
XGOY	9658 kc/s	31.06 m	35 kW
XGOA	9730 kc/s	30.83 m	4 kW
XNRA	9750 kc/s	30.77 m	1 kW
XUPA	10000 kc/s	30.00 m	0,3 kW
XRRA	10260 kc/s	29.24 m	2 kW
XLRA	11500 kc/s	26.09 m	1 kW
XTPA	11650 kc/s	25.75 m	1 kW
XORA	11690 kc/s	25.66 m	5 kW
XGOA	11835 kc/s	25.36 m	7,5 kW
XGOY	11913 kc/s	25.18 m	35 kW
XKPB	12120 kc/s	24.75 m	0,4 kW
XGOY	15170 kc/s	19.78 m	35 kW
XGRY	15250 kc/s	19.67 m	20 kW
XGRZ	17765 kc s	16.89 m	20 kW
XGOY	17800 kc/s	16.85 m	35 kW
XGSW	21450 kc/s	13.99 m	20 kW

XGOY — THE CHINESE INTERNATIONAL BROADCASTING STATION, "The Voice of China".

Address: The Chinese International Broadcasting Station. XGOY, Broadcasting House, 295 Chung Shan San Lu, Chungking.

Leading Personalities: Director: Fung Chien. Director of English Programmes: Mr. Roy Dunlop.

Daily Programmes: From 08.55-15.50.

08.55-10.35 *to Australia, New Zealand and East Asia on 15170 kc/s.*
08.55 Chinese music. — 09.05 Western music. — 09.20 Mandarin. — 09.90 Cantonese. — 09.40 Peiping Opera. — 10.00 Mandarin. — 10.05 Western music.

10.35-12.35 *to East Asia and South Seas on 15170 kc/s and 7153 kc/s.*
10.35 Progr. Preview, Cantonese. — 10.45 Western music. — 11.00 News in English. — 11.10 Chinese songs. — 11.20 Mandarin. — 11.35 Siamese. — 11.45 Chinese music. — 12.00 Mandarin.

12.45-15.00 *to North America and Euprope on 11913kc/s and 7153 kc/s.*
12.45 Progr. Preview, Cantonese. — 13.00 News in English. — 13.20 Mandarin. — 13.30 Western music. — 14.00 Music.

15.00-15.50 *to Europe, America, China and South Seas on 11913 kc/s and 7153 kc/s.*
15.00 News in English. — 15.15 Mandarin.

Highlights of Programmes:
Chinese Classical Music: Tuesdays and Thursdays at 12.45.
Daily Feature of Light Music: 14.30.
The Symphony Hour: Saturday and Sunday from 14.15-15.00.
This program is devoted to acknowledgement of requests and letters from listeners all over the world. Other requests are accepted and welcomed at all times.

Announcement: "This is Station XGOY, The Voice of China in Chungking" or "This is Chinese International Broadcasting Station in Chungking". — Announcements are also given in Mandarin, Cantonese and Siamese.

Interval Signal and Signature Tune: Each transmission begins with series of chimes, heard at 08.55, 10.35, 12.45 Daily transmission signs off at approximately 15.50 GMT with Chinese National Anthem played by military band.

Reports from Listeners: All letters or communications are answered by letter and acknowledged over the air as well during "Symphony Hour" programme on Saturdays and Sundays. When writing to XGOY, return postage should be enclosed. Requests for musical selections are complied with whenever possible.

Message to Listeners:
"Although the world is not yet free of wars, the Chinese International Broadcasting Station feels that by means af radio we can create a higher measure of sympathetic understanding between peoples of the east and the west, break down the prejudices of race, colour, religion and creed and built a better world where war may not exist. We are trying to tell the real story of China to the world, without elaboration or excuse; we want to create an interflow of cultural knowledge between the countries of the world and to let the world come into close contact with the real people of China, to know the history, the literature, the arts, the philosophies as well as the modern science and research being carried on in China, and we want to learn from the world as well. This is the only sure path towards a permanent peaceful democratic world."

XGOA — THE CENTRAL BROADCASTING STATION, NANKING

Daili Programmes:

00.30-03.00 *to North America on 11835, 9730 and 5918 kc/s.*
00.30 Progr. Preview. — 00.45 Mandarin. — 01.10 News in English. — 01.40 English. — 02.30 News in English.

08.00-10.00 *to Australia, New Zealand, Philippines and South Seas on 11835 kc/s and 5918 kc/s.*
08.00 Records. — 08.40 English. — 09.00 News in English and Commentary.

10.00-12.30 *to Mongolia, Tibet, Japan and the South Seas China on 11835 kc/s and 5918 kc/s.*
10.00 Various Languages, Sunday: Concert. — 10.10 Cantonese. — 10.20 Amoy. — 10.40 Cantonese. — 11.00 Music. — 11.15 Japanese .— 11.40 English. — 11.50 Chinese music. — 12.00 Mandarin.

12.30-14.15 *to India, South Africa and Eastern Europe on 11835 kc/s and 5918 kc/s.*
12.40 News in French. — 13.00 News in English. — 13.30 Russian (exc. Thursd. and Sun., Arabic). 14.00 Cantonese.

Highlights of Programmes: *Concert* at 01.20 and 09.10. *Peiping Opera* at 02.40. Cantonese and Amoy Music at 10.30.

XORA — SHANGHAI BROADCASTING STATION, SHANGHAI

Address: The Shanghai Broadcasting Station, XORA, No. 7 West Chung Cheng Road, Shanghai.

Daily Programmes:
22.45-00.15 *to East Asia and South Seas on 11690 kc/s.*
03.00-04.30 *to North America on 11690 kc s.*
07.50-08.45 *to Japan and Korea on 11690 kc/s.*
09.00-10.15 *to Australia, New Zealand and South Pacific.*
10.15-13.00 to East Asia, South Seas and China.

XRRA (10260 kc/s) — PEIPING BROADCASTING STATION

Address: Peiping Broadcasting Station, XRRA, No. 3, Chang An Tse Kai, Peiping.
Daily Programmes from 12.00-15.00.

XURA (7223 kc/s) — TAIWAN BROADCASTING STATION

Address: Taiwan Broadcasting Station, XURA, Taipei, Taiwan.

Daily Programmes from 21.30-23.30, 02.55-05.00 and 08.30-14.30.

XTPA (11650 kc/s) — CANTON BROADCASTING STATION

Address: Canton Broadcasting Station, XTPA, Canton, Kwangtung.

Daily Programmes from 09.00-14.00.

XUPA (10000 kc/s) — FUKIEN BROADCASTING STATION

Address: Fukien Broadcasting Station, XUPA, Foochow, Fukien.

Daily Programmes from 09.00-15.00.

XUPB (6130 kc/s) — AMOY BROADCASTING STATION

Address: Amoy Broadcasting Station, XUPB, Amoy, Fukien.

Daily Programmes from 09.00-14.00.

XLRA (11500 kc/s and 6054 kc/s) — HANKOW BROADCASTING STATION

Address: Hankow Broadcasting Station, XLRA, Hankow, Hupeh.

Daily Programmes: 23.00-00.15, 10.00-15.30.

XPRA (6404 kc/s) — KUNMING BROADCASTING STATION

Address: Kunming Broadcating Station, XPRA, Kunming, Yunnan.

Daily Programmes: 05.00-10.00, 11.30-16.00 GMT.

XPPA (7000 kc/s) — KWEICHOW BROADCASTING STATION

Address: Kweichow Broadcasting Station, XPPA, Kweiyang, Kweichow.

Daily Programmes: 05.30-07.00, 11.00-15.00 GMT.

XNRA (9750 kc/s) — LANCHOW BROADCASTING STATION

Address: Lanchow Broadcasting Station, XNRA, Lanchow, Kansu.

Daily Programmes: 00.00-02.00, 05.00-07.00 GMT

XKPB (12120 kc/s) — SHANSI BROADCASTING STATION

Address: Shansi Broadcasting Station, XKPB, Taiyuan, Shansi.

Daily Programmes: 00.55-01.40, 03.00-04.30, 09.00-10.40 GMT.

XOPB (9552 kc/s) — CHEKIANG BROADCASTING STATION

Address: Chekiang Broadcasting Station, XOPB, Hangchow, Chekiang.

Daily Programmes: 00.30-03.30, 05.30-14.20 GMT.

HONG-KONG

Normal Clock Time — G. M. T. plus 8 hours.

Address: Hong-Kong Broadcasting Studio, Gloucester Building, Hong-Kong.

Leading Personalities: A Government controlled station with an advisory committee under the chairmanship of the Postmaster General. Programme Director: Mr. D. Keith Hardy. Supervisor of Chinese Programmes: Mr. S. C. Lau. Chief-Engineer: Mr. W. A. M. Ramsbotham.

Stations: *Hongkong* 2,5 kW.
Z. B. W. 3 9525 kc/s 31.49 m

Daily Programmes: From 03.30 (Sun. 02.30)-06.00 and 10.00-15.00.

In English from 03.30 (Sun. 02.30)-05.30, 10.30-11.30 and 13.00-15.00.
Religious Service at 02.30 on Sundays.

04.30	Records. Progr. Preview	11.00	Home News, BBC
		13.00	News, BBC
05.15	News in English	13.10	Music
05.30	Records	14.00	Radio Newsreel
10.00	Children's hour		

In Chinese from 05.30-06.00, 10.00-10.30 and 11.30-13.00.

Announcement:
English: "This is Radio Hong Kong".
Chinese: "Heung Kong Kwang Tian Toi".

Interval Signal: March.

Message to Listeners: We are always interested to receive listeners' comments on programmes and reception, and all letters are answered.

INDIA

Normal Clock Time — G. M. T. plus 5½ hours

Address: Directorate General, All India Radio, Government of India Broadcasting House, Parliament Street, New Delhi.

Leading Personalities: Director General: Mr. P. C. Chaudhuri (on deputation) Mr. N. A. S. Lakshmanan (officiating) Mr. Rai Bahadur S. N. Chaturvedi. Chief Engineer: Mr. B. V. Baliga, — Director of Administration: Mr. Rai Sahib C. N. Sen., Director of News & External Services: Mr. M. L. Chowla, Editor for Indian Listeners: Mr. S. N. Ghosh.

Stations: Delhi.

VUD2	4960 kc/s	60.48 m	10 kW
VUD5	7290 kc/s	41.15 m	100 kW
VUD10	7290 kc/s	41.15 m	20 kW
VUD2	7290 kc/s	41.15 m	10 kW
VUD5	9590 kc/s	31.30 m	100 kW
VUD10	9630 kc/s	31.15 m	20 kW
VUD2	9630 kc/s	31.15 m	10 kW
VUD11	9630 kc/s	31.15 m	20 kW
VUD3	9670 kc/s	31.02 m	5 kW
VUD11	11760 kc/s	25.51 m	20 kW
VUD4	11850 kc/s	25.32 m	10 kW
VUD7	15160 kc/s	19.79 m	100 kW
VUD5	15190 kc/s	19.74 m	100 kW
VUD11	15290 kc/s	19.62 m	20 kW
VUD3	15290 kc/s	19.62 m	5 kW
VUD9	15350 kc/s	19.54 m	7,5 kW
VUD3	17760 kc/s	16.89 m	5 kW
VUD10	17830 kc/s	16.83 m	20 kW
VUD8	21510 kc/s	13.95 m	7,5 kW
VUD10	21510 kc/s	13.95 m	20 kW

Bombay, VUB2, 10 kW		**Calcutta, VUC2, 10 kW**	
4880 kc/s	61.48 m	4840 kc/s	61.98 m
7240 kc/s	41.44 m	7210 kc/s	41.61 m
9550 kc/s	31.41 m	9530 kc/s	31.48 m

Madras, VUM2, 10 kW
4920 kc/s 60.98 m
7260 kc/s 41.32 m
9590 kc/s 31.30 m

Daily Programmes from Delhi to Listeners outside India
In English:

03.15	Summaries of the External Services, Programme for the next seven hours	in 19-16-13 m. b.
03.30	News	in 19-16-13 m. b.
05.30	News. (Including a round up of Indian News in the last twenty-four hours) followed by Western Music	in 19-16 m. b.
06.30	News	in 19-16 m. b.
10.00	Headlines. News followed by Programme summary for the next 7½ hours	in 19-13 m. b.
11.30	News, followed by composite Programmes. Music or Talk	in 19-16 m. b.
14.00	Weekly summaries, incl. highlights of programme	in 19-13 m. b.
14.30-15.00	News — Records	in 31-19-13 m. b.

Daily Home Programmes from Delhi, Bombay, Calcutta and Madras on Shortwave.
Home News in English:
02.30 in 41-31-25-19 m. b.
08.00 in 31-25-19-16 m. b.
12.30 in 31-25-19-16 m. b.
15.30 in 60-41-31-25-19-13 m. b.

Announcement: "You are listening to All India Radio".

Interval-Signal: All India Radio's signature tune is a melody of eight seconds' duration repeated with intervals of 10 seconds in between. The instruments used are Violin, Viola, Cello and Tampura.

Message to Listeners: Reports from Listeners are answered with special QSL card. — It is not necessary to enclose return postage. —

AKASHVANI BROADCASTING STATION, MYSORE

Stations:
VU7MC 6065 kc/s 49.46 m 5 kW

Daily Programmes from 00.30-02.40, 07,30-08.40 and 11.00-15.40.

News in English at 02.30 and 12.30.

PAKISTAN:
Director General of the Pakistan Radio: Mr. Boghari.

Stations: Karachi 6075 kc/s 49.54 m 0,25 kW
From 02.00-04.00 (Sun. 04.30), 07.00-08.30 and 12.00-17.30.
Daily News in English at 02.30, 08.00, 12.30 and 15.30.

Message to Listeners: Reports answered by QSL letter.

SRINAGAR, KASHMIR

Transmit approx. on 4860 kc/s 61.73 m from about 14.00 to 16.00.

HYDERABAD

Stations: VUV 3335 kc/s 89.92 m 6210 kc/s 48.31 m

News in English: 03.10-03.15, 07.30-07.40, 15.10-15.20 and 17.30-17.40.

Announcement: "This is Deccan Radio Hyderabad". Close down at 18.40 with National Anthem of Hyderabad.

INDOCHINA (French)

Normal Clock Time — G. M. T. plus 7 hours.

Address: Radio Saigon, 86 Rue Mac-Mahon, Saigon.

Leading Personalities: Director General: M. Jean Varnoux. Head of English Dept.: Mr. Jean Pipon.

Stations: *Radio Saigon* 12 kW
18393 kc/s 16.31 m
11780 kc/s 25.47 m
6165 kc/s 48.66 m

Daily Programmes from 23.30-01.00, 03.30-05.30 and 08.30-15.30.

23.30	News in French		on 48.66 m, Progr. in English on 25.47 m (News, Talk, Music)
00.30	News in French		
00.45	News in English (on 25.47 m. only)	12.00	French Progr.
04.00	Request Records	12.30	Variety
04.30	News in French	13.30	Progr. in English on 25.47 m (News, Talk, Music)
04.45	French Chronicle		
10.00	Progr. in Vietnamese		

Letter Box Programmes: In French every Tuesday at 03.00; in English every Monday at 10.40 and every Friday at 13.50.

Indochina speaks to France daily on 16.31 m from 15.30-16.00.

Announcement: "Ici Radio Saigon La Voix de la France en Extreme-Orient."
"This is Radio Saigon — The Voice of France in Far-East."

Interval-Signal: Gong.

Message to Listeners: "We receive an important mail from overseas listeners interested in our English programmes. All reports are answered: firstly over the air, every Friday at 10.30 and 13.45 G. M. T. secondly, by means of a verification card, or personal letter. We attach much importance to listeners reports and cordially invite DX fans to write to us and frankly give us their opinion on our programmes".

REGIONAL STATIONS

Radio Cambodge — 6190 kc/s 48.47 m 1,0 kW.

Daily Programmes in *French* and *Cambodian* from 23.00-00.15, 04.00-05.30 and 10.00-12.00.

Radio France-Hanoi — 6048 kc/s 49.61 m 1,5 kW.

Daily Programmes in *French, Chinese* and *Vietnamian* from 23.30-01.00, 03.30-05.00 and 11.00-13.00.

English daily at 12.00. .. ..

Radio Huè — 7205 kc/s 41.64 m 1 kW

Daily Programmes in *French* and *Vietnamian* from 23.00-01.00, 03.00-06.00 and 10.00-15.30.
23.00-01.00 Relay Saigon
03.00-04.00 Vietnamian Progr.
04.00-06.00 French Progr.
10.00-15.30 Relay Saigon

INDONESIA (Netherlands East-Indies)

The address of the headquarters of the only broadcasting organisation in Indonesia:
Stichting "Radio-Omroep in Overgangstijd"
Koningsplein Zuid 17.
Batavia-Centrum. Java.

This organisation is controlled by the provisional Federal Government of Indonesia.
Only in Batavia — the future capital of the United

States of Indonesia — are transmitters for Overseas-Service located. The others are only used for Home-Service with programmes in Indonesian (Bahasa Indonesia) and Dutch.

Leading Personalities: Government Supervisor: Dr. P. J. Koets, Chairman: Mr. R. Schrader, Director General: Dr. J. Ozinga, Programme-Director: Mr. F. L. A. Nieuwenhuys, Head Technical Dept.: Mr. M. P. Breedveld, Deputy-Head of Progr. Dept.: Mr. Raden Ngabhei Margono Notokoesoemo, Director of News: Dr. J. W. Niessink.

Announcements: This is Radio Indonesia from ..... (name of town where station is situated).
Disini ..... Radio Indonesia (Indonesian).
Hier is Radio Indonesia te ..... (Dutch).

Message to Listeners: Listeners are requested to send reception-reports directly to the station-addresses.

BORNEO (Dutch)

Normal Clock Time — G. M. T. plus 8 hours.

PONTIANAK:

Address: Radio Indonesia, Studio Pontianak.

Stations: YCN3 8090 kc/s 37.08 m 0,15 kW

Daily Programmes from 12.25-14.30 for the Forces.
Dutch from 12.25-14.00.

CELEBES

Normal Clock Time — G. M. T. plus 8 hours.

MAKASSAR:

Address: Radio Indonesia, Studio Makassar, Strandweg Zuid 2, Makassar.
Stations-Manager: Mr. A. O. A. Niederer.

Stations:

YFA	5030 kc/s	59.64 m	0,25 kW
YDO	9550 kc/s	31.41 m	3,5 kW
—	11084 kc/s	27.06 m	0,35 kW

Daily Programmes:
YFA: 05.00-06.30 (Weekd.) Dutch.
YDO: Sun.: 23.00-05.15 and 12.00-15.00. Weekd.:23.00-24.00, 05.00-06.30 and 12.00-15.00. 16.45-17.00 (Tuesd., and Thursd.)
27.06 m.: 10.00-12.00.
News at 05.00 (YDO), 12.30 (YDO): Sun. 23.30 (YDO), 05.15 (YDO, YFA), 06.15 (YDO, YFA), 12.30 (YDO).
Forces Programme in Dutch from 10.00-12.00 on 27.06 m.

MENADO:

Address: Radio Indonesia, Studio-Menado.

Stations 9800 kc/s 30,6 m 0,4 kW

Daily Programmes for the Forces from 10.00-12.00. Dutch from 10.30-12.00. News at 10.30.

JAVA

Normal Clock Time — G. M. T. plus 8 hours.

BATAVIA: (In Indonesian: Djakarta)

Address: Radio Indonesia, Studio Batavia, Koningsplein West 4-5, Batavia.

Station-Manager: Mr. W. P. van den Berge.

Eastern Stations:

YDB	2240 kc/s	133.9 m	0,3 kW
YDB2	4910 kc/s	61.10 m	0,3 kW
YDB3	7270 kc/s	41.26 m	0,3 kW
YDE	11770 kc/s	25.49 m	3 kW
YDC	15150 kc/s	19.80 m	3 kW

Daily Programmes in *Indonesian* and *Chinese:*
Weekdays: 22.00-24.00, 04.00-06.30, 08.30-15.00 (Sat. 16.00)
Sundays: 23.00-06.30 and 08.30-15.00

Western Stations:

YDD	2600 kc/s	115.4 m	0,3 kW
YDD2	4865 kc/s	61.66 m	0,3 kW
PLB4	10365 kc/s	28.94 m	3 kW

Daily Programmes in Dutch:
Weekdays: 22.00-24.00, 04.00-06.45 and 09.00-15.00
Sundays: 23.00-06.45 and 09.00-15.00
News in Dutch: 22.30 (Weekd.), 23.30 (Weekd.), 00.00 (Sun.), 05.00, 06.30, 11.30 and 14.00.
Dictation-news in Dutch: 08.00-09.30 over PLB4.
News in English: 09.45.
Forces Programme: 22.00-23.00 (exc. Sun.), 04.00-05.00, 10.00-11.00 and 14.10-15.00.

Overseas-Service:

YDC	15150 kc/s	19.80 m	3 kW
PLD6	17630 kc/s	17.02 m	2,5 kW
PLF2	19345 kc/s	15,51 m	2,5 kW

A 100 kW transmitter is under construction.

Daily Programmes in Dutch, English, Indonesian, French, Chinese and Arabian.

11.00-12.00	English	YDC
12.00-13.00	Dutch	PLF2
15.00-16.00	French	YDC-YDE
16.00-16.30	Forces Progr.	YDC-PLD6-PLF2
16.30-17.00	Dutch	YDC-PLF2
16.30-17.30	French	PLD6
17.00-17.30	French	PLF2
17.30-18.00	Arabian	PLD6-PLF2

Indonesian programme over YDC from 12.00-15.00.

BANDOENG:
Address: Radio Indonesia, Studio-Bandoeng, Tjioemboeleuit, Boekittoenggoelweg, Bandoeng.
Station-Manager: Mr. W. R. Demmink.

Eastern Stations:

YDA2	6170 kc/s	48.62 m	0,25 kW
YDA3	4945 kc/s	60.61 m	0,15 kW

Daily Programmes in Indonesian:
Weekdays: 23.00-00.30, 04.00-05.00 and 09.30-14.30, (Sat. 16.00)
Sundays: 23.00-06.00 and 09.30-14.30

Western Stations:

YDA	3040 kc/s	98.68 m	3 kW

Daily Programmes in Dutch:
Weekdays: 22.30-24.00, 04.00-06.45 and 09.30-15.00 (Sat. 15.30)
Sundays: 23.00-06.45 and 09.30-15.00
News (relay from Batavia): 22.30 (Weekd.), 23.30 (Weekd.), 00.00 (Sun.), 05.00-06.30 and 11.30, 13.00 (relay from PCJ-Holland)

SOERABAJA

Address: Radio Indonesia, Studio-Soerabaia, Kajoon 34, Soerabaia.
Stations-Manager: Mr. W. J. C. van Starreburg.

Eastern Stations:

YDI2	4370 kc/s	68.65 m	3 kW
YDI3	7295 kc/s	41.12 m	0,25 kW

Daily Programmes in Indonesian:
Weekdays: 22.25-24.00, 04.00-06.00 and 09.00-14.30 (Sat. 15.00)
Sundays: 23.25-06.00 and 09.00-14.30

Western Stations:

YDI	3240 kc/s	92.59 m	0,25 kW
YDI4	4840 kc/s	61.98 m	0,8 kW

Daily Programmes in Dutch:
Weekdays: 22.30-24.00, 04.00-06.45 and 09.00-15.00 (Sat. 15.30)
Sundays: 23.00-06.45 and 09.00-15.00
News: 22.30 (Weekd.), 23.00 (Sun.), 23.30 (Weekd), 05.00-06.30, 11.30 and 13.00 (relay from PCJ-Holland)

SEMARANG:

Address: Radio Indonesia, Studio-Semarang, Dr. de Vogelweg 1, Semarang.

Stations-Manager: Mr. J. van Holland.

Stations:

YDH	2510 kc/s	119,5 m	0,125 kW
YDH2	11030 kc/s	27.20 m	0,5 kW

Daily Programmes for the Forces: 02.00-04.00 (Weekd.), 09.00-15.00.
Dutch from 02.00-03.00 and 11.00-15.00.

GAROET:

Address: Radio Indonesia, Studio Garoet.

Station: 2810 kc/s 106.8 m 0,3 kW

Daily Programmes for the Forces in Dutch: 09.00-14.30.

NEW GUINEA

Normal Clock Time — G. M. T. plus 9 hours.

BIAK:

Station: YDZ 4895 kc/s 61.29 m 0,04 kW
Temporary Forces-station.

MOLUCCAS

Normal Clock Time — G. M. T. plus 9 hours.

AMBON:
Address: See Makassar.

Stations: YDR 3380 kc,s 88.76 m 0,25 kW

Daily Programmes from 11.00-14.00 in Dutch (relay Makassar Progr.)

SUMATRA

Normal Clock Time — G. M. T. plus 7 hours.

MEDAN:

Address: Radio Indonesia, Studio Medan, Serdangweg 28, Medan.

Stations: YDP2 7210 kc/s 41.61 m 0,35 kW

Daily Programmes: from 23.30-00.45 (Weekd.), 00.30-03.30 (Sun.), 04.30-07.00 and 09.30-15.30,
News in Dutch: 23.30 (Weekd.), 01.00 (Sun.), 05.30, 06.30 and 14.00 (from PCJ-Holland).

PADANG:

Address: Radio Indonesia, Studio-Padang, Sawahan 51.

Stations: YDL 3270 kc/s 91.75 m 0,35 kW

Daily Programmes for the Forces: from 00.30-03.30 (Sun.), 05.00-07.00 and 09.00-15.00.
Dutch from 00.30-03.30 (Sun.), 05.00-07.00 and 10.00-15.00.

PALEMBANG:

Address: Radio Indonesia, Studio Palembang, Talang Djawa 7, Palembang.

Stations YDK 4855 kc/s 61.79 m 0,25 kW

Daily Programmes for the Forces: from 10.30-15.00.
Dutch from 10.30-12.00 and 12.30-15.00.

JAPAN

Normal Clock Time — G. M. T. plus 9 hours.

THE BROADCASTING CORPORATION OF JAPAN, TOKIO. (NIPPON HOSO KYOKAI).

Leading Personalities: President: Mr. Takano, Iwasaburo. General Managing Director and Chief of Programme Dept.: Mr. Fukukaki, Tetsuru. Chief of Technical Dept.: Mr. Komatsu, Shigeru. —
There is no transmission on short wave or medium wave, destined to serve foreign listeners at present.

These programme are all in the *Japanese* language.

Stations. Relay of JOAK-1 (Tokio).

Yamata JKC	7257.5 kc/s	41.3 m	5 kW
Nazaki JKF	9655 kc/s	31.07 m	5 kW
Nazaki JKF-2	4910 kc/s	61.10 m	5 kW

Daily Programmes in *Japanese:*
On 41.3 m from 20.00-14.30
On 31.07 m from 22.25-10.15
On 61.10 m from 20.00-22.15 and 10.15-14.30

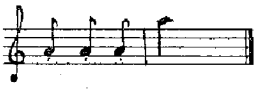
Stations. Relay of JOAK-2 (Tokio)

Nazaki JKA	7285 kc/s	42.83 m	5 kW
Kawachi JKG	9695 kc/s	30.95 m	5 kW
Kawachi JKG2	4930 kc/s	60.00 m	5 kW

Daily Programmes in *Japanese:*
On 42.83 m from 21.25-23.00, 08.25-14.30
On 30.95 m from 21.25-23.00, 08.25-10.00
On 60.00 m from 10.15-14.30

Announcement: Network sign of NHK (Nippon Hoso Kyokai) and call sign of JOAK (Tokyo) or JOBK (Osaka) identifies the station which originates the program. These announcements are made over all shortwave transmissions regardless their proper call signs, which usually are not given. —

Interval-Signal: Musical tones or signals now used are: Time signal, three short notes followed by one second note. Three chimes showing the local drop off from national hookup. No identification signal used at present.



Message to Listeners: "We have no verification card prepared at present. We answer all questions by letter."

ARMED FORCES RADIO SERVICE

Stations. Relay of WVTR Tokio.

Nazaki JKD	6015 kc/s	49.88 m	5 kW
Yamata JKE	9605 kc/s	31.24 m	5 kW
Yamata JKE-2	4860 kc/s	61.73 m	5 kW

Daily Programmes in *English:*
On 49.88 m from 21.15-14.05
On 31.24 m from 21.15-10.00
On 61.73 m from 10.15-14.05

BRITISH COMMONWEALTH OCCUPATION FORCES RADIO —

Address: B. C. O. F. Radio WLKS Kure Japan.

Leading Personalities: Lt. K. Collie. O. C. Broadcasting.

Stations: Kuro WLKS 6100 kc/s 49.18 m 1 kW

Daily Programmes in *English* from 20.30 (Sun. 21.30)-12.30.

STATIONS BROADCASTING TO REPATRIATION — CAMPS IN CHINA

Kawachi JVW	15225 kc/s	19.71 m	15 kW
Kawachi JVW-2	9505 kc/s	31.59 m	15 kW
Kawachi JVW-3	15235 kc/s	19.69 m	5 kW
Kawachi JVW-4	9560 kc/s	31.38 m	5 kW

Daily Programmes in *Japanese:*

On 19.71 and 19.69 m from 22.50-12.15
On 31.59 and 31.38 m from 10.25-14.30

KOREA

Normal Clock Time — G. M. T. plus 9 hours.

Address: Korean Broadcasting System "The Voice of Korea, 1 Chung Dong Jung, Seoul.

Station: HLKA 7930 kc/s 37.82 m 5 kW

Daily Programmes in Korean from 11.00-13.30

Announcement: Every 15 minutes "HLKA, this is the Korean Brodacasting System".

Interval Signal: Three-toned gong.

MALAYA

Normal Clock Time — G. M. T. plus 7½ hours.

BRITISH FAR EASTERN BROADCASTING SERVICE
This Service operates under the control of BBC.

Address: British Far Eastern Broadcasting Service, Thomson Road Studios, P. O. Box 434, Singapore.

Leading Personalities: Head of Service: Mr. W. R. Baker, Editor: Mr. W. V. Pennell, Sub-Editor: Mr. J. M. Cunningham, Chief Engineer: Mr. E. W. Hayes, Administrative: Mr. W. J. R. Cox.

Stations: Singapore 7.5 kW

6770 kc/s	44.31 m	9690 kc/s	30.98 m
11730 kc/s	25.58 m	15300 kc/s	19.61 m

Daily Programmes
On 44.31, 25.58 and 19.61 m from 09.15-16.30.
On 30.98 m from 10.30-16.30.

09.15 Programme Preview and News
09.20 Share Market Report (exc. Sun.)
09.25 Music (Mon., Fri: Health Bulletin)
10.15 Music
11.00 News in English
11.15 Prog. in Indonesian
11.45 News, Talk, English Lesson from BBC
12.30 Siamese, News
13.00 News in English
13.15 News in Dutch
13.30 Kuoyu. Progr. and News
14.00 News in Burmese
14.15 News in English and Share Market Report
14.30 Classical Music (Sat., Sun.)
15.00 Radio Newsreel
15.15 Talk (Mon., Tues., Thurs., Fri.)
15.30 Music (exc. Fri. and Wedn.)
16.00 News in English
16.10 News Analysis from BBC
16.15 Talk from BBC (exc. Sat. when Dance Music)

The programmes consists of rebroadcasts of BBC Services from London.

Announcement: In *English:* "This is the British Far Eastern Broadcasting Service, Singapore". Languages: Malay, Siamese, Chinese, Dutch, French and Japanese.

Interval-Signal: A chime of two bells at 7 seconds interval.

Message to Listeners: "The British Far Eastern Broadcasting Service greets all listeners in South East Asia and is always glad to receive their comments on programmes and reception. Reports are answered by QSL-card.

RADIO MALAYA

Address: Radio-Malaya, Department of Broadcasting, Cathary Building, Singapore.

Stations:

Singapore	4780 kc/s	62.76 m	10 kW
Singapore	4825 kc/s	62.18 m	10 kW
Singapore	4985 kc/s	60.91 m	10 kW
Singapore	6135 kc/s	48.90 m	10 kW
Singapore	7200 kc/s	41.66 m	10 kW
Kuala Lumpur	6025 kc/s	49.79 m	10 kW

Daily Programmes from Singapore in English, Malay and Chinese.

03.30-04.30 Chinese on 48.90 m 41.66 m (Mon., Wedn., Fri.)
04.30-05.30 English on 41.66 m
04.30-05.45 Chinese on 48.90 m
05.30-06.30 Malay on 41.66 m
07.30-10.30 English on 48.90 m
10.30-12.15 Malay on 48.90 m
12.15-15.30 Chinese on 62.76 m
14.00-15.30 English on 62.18 m 60.91 m

Daily Programmes from Kuala Lumpur.
On 49.79 m.

05.30-06.30 English
07.30-08.00 Chinese
12.15-12.45 Malay
12.45-15.30 English

Announcement: "Here is Radio Malaya calling you from ..... (Singapore, Kuala Lumpur, Penang, Seremban or Malacca respectively).

Interval-Signal: "Terrang Bulan."

SIAM

Normal Clock Time — G. M. T. plus 7 hours.

Address: The Overseas Broadcasting Station, Publicity Department, Bangkok, Siam.

Leading Personalities: President: Luang Sukhum Nayapradit, Manager: Nai Witt Siwasariyanon. Chief Engineer: Luang Tantakosai.

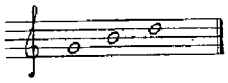
Stations:
Bangkok HS8PD 6000 kc/s 50 m 2,5 kW

Daily Programmes in *English* from 10.00-11.30:
News in English at 10.15 and 11.15.

Announcements: "This is the Overseas Broadcasting Station of Siam".

Opening Announcement: National song and three chimes.

Interval Signal:



Message to Listeners: "We ask all shortwave listeners to send us reports,, which always will be verified" either by QSL card or letter. Return postage not required.

PACIFIC

AUSTRALIA

Victoria, New South Wales, Queensland, Tassmanian. Normal Clock Time — G. M. T. plus 10 hours.
South Australia. Normal Clock Time — G. M. T. plus 9½ hours.
Western Australia (Call-sign VLW). Normal Clock Time — G. M. T. plus 8 hours.

A. B. C. AUSTRALIAN BROADCASTING COMMISION
Address: Australian Broadcasting Commision, Head Office, 264 Pitt Street, Sydney.
Correspondence should be addressed to the A.B.C., at the Capital city in which stations are situated.

Leading Personalities: Chairman: Mr. R. J. F. Boyer. Vice-Chairman: Mr. E. R. Dawes. General Manager: Mr. C. G. A. Moses. Assistant General Manager: Mr. A. N. Finlay. Controller of Programmes: Dr. K. L. Barry. Controller of Administration: Mr. A. L. Holman.

Stations: Melbourne, VLR, 2 kW

VLR	9540 kc/s	31.45 m
VLR2	6150 kc/s	48.78 m

Lyndhurst, VLH, 10 kW

VLH3	9580 kc/s	31.32 m
VLH4	11880 kc/s	25.25 m
VLH5	15230 kc/s	19.69 m

Perth, VLW, 2 kW

VLW3	11830 kc/s	25.36 m
VLW5	9610 kc/s	31.22 m
VLW7	9520 kc/s	31.51 m

Brisbane, VLQ, 10 kW

VLQ3	9660 kc/s	31.06 m

Announcement: "This is the Australian National Programme". "This is the Victorian, New South Wales or Queensland Interstate Programme."
Interval-Signal: Chimes.
Message to Listeners: "The Australian Broadcasting Commission greets its listeners and invites reception reports from them".

RADIO AUSTRALIA

Address: "Radio Australia", Box 780 H, G. P. O., 475 Collins Street, Melbourne C. 1.
Leading Personalities: Director General: Mr. E. G. Bonney — Director: Mr. T. P. Hoey. Programme Manager: Mr. Robin Wood. — Editor: Mr. Hugh Buggy. — Chief Engineer: Mr. R. V. Mc-Kay. — Superintending Engineer: Mr. N. V. Hayes.

Stations: Shepparton, VLA, 100 kW

VLA	7280 kc/s	41.21 m
VLA2	9615 kc/s	31.20 m
VLA3	9680 kc/s	30.99 m
VLA4	11770 kc/s	25.49 m
VLA5	15320 kc/s	19.59 m
VLA6	15200 kc/s	19.74 m
VLA7	17800 kc/s	16.85 m
VLA8	11760 kc/s	25.51 m
VLA9	21600 kc/s	13.89 m
VLA10	17840 kc/s	16.82 m

Shepparton, VLB, 100 kW

VLB	9540 kc/s	31.45 m
VLB2	9680 kc/s	30.99 m
VLB2	9650 kc/s	31.09 m
VLB3	11770 kc/s	25.49 m
VLB3	11760 kc/s	25.51 m
VLB4	11810 kc/s	25.40 m
VLB5	21540 kc/s	13.93 m
VLB6	15200 kc/s	19.74 m
VLB7	17800 kc/s	16.85 m
VLB8	21600 kc/s	13.89 m
VLB9	9615 kc/s	31.20 m
VLB10	11740 kc/s	25.55 m
VLB11	15320 kc/s	19.59 m
VLB11	15160 kc/s	19.79 m

Shepparton, VLC, 50 kW

VLC	15200 kc/s	19.74 m
VLC2	9680 kc/s	30.99 m
VLC3	11870 kc/s	25.27 m
VLC3	11760 kc/s	25.51 m
VLC4	15320 kc/s	19.59 m
VLC5	9540 kc/s	31.45 m
VLC6	9615 kc/s	31.20 m
VLC7	11840 kc/s	25.35 m
VLC7	11810 kc/s	25.40 m
VLC8	7280 kc/s	41.21 m
VLC9	17840 kc/s	16.82 m
VLC10	21680 kc/s	13.84 m
VLC11	15210 kc/s	19.72 m

Lyndhurst, VLG, 10 kW

VLG	9580 kc/s	31.32 m
VLG2	9540 kc/s	31.45 m
VLG3	11710 kc/s	25.62 m
VLG4	11840 kc/s	25.35 m
VLG5	11880 kc/s	25.25 m
VLG6	15240 kc/s	19.69 m
VLG6	15230 kc/s	19.70 m
VLG7	15160 kc/s	19.79 m
VLG8	9680 kc/s	30.99 m
VLG9	11900 kc/s	25.21 m
VLG10	11760 kc/s	25.51 m
VLG11	15200 kc/s	19.74 m
VLG11	15210 kc/s	19.72 m

DAILY PROGRAMMES IN ENGLISH

02.00-04.00 *To Pacific, Asia and Japan* on 13.93, 16.82, 19.72 and 19.74 m (Sat. and Sun.. only).
03.00-04.00 *To Pacific, Asia and Japan* on 13.93, 16.82 and 19.72 m.
03.15-07.30 *Special Sports Transmission* to the Forces. (Saturdays only) on 13.93 and 19.72 m.
04.30-05.45 *To America* on 16.82, 19.59 and 19.74 m. *To Africa* on 13.93 m (not Sat.)
06.00-06.45 *To British Isles and Europe* on 30.99 m.
07.00-08.15 *To Europe and British Isles* on 30.99 m. on 16.82 m to 07.45; 25.51 m (not. Sat.)
08.30-15.00 *To Pacific, Asia and Japan.* For the Forces *19.74 m:* 08.30-15.00, *25.51 m:* 08.30-11.45 and 14.00-15.00, *19.59 m:* 08.55-11.45, *25.62 m:* 08.55-15.00.
12.00-13.45 *To America and South Africa* on 31.45 and 25.40 m.
14.00-15.00 *To Europe and British Isles* on 25.51 and 25.62 m
15.00-16.15 *To America* on 25.51 and 31.20 m
15.15-16.15 *To South Africa* on 31.32 m
20.00-21.55 *To Europe, British Isles and New Zealand* on 16.82 m. On 25.51 and 31.09 m until 21.30.
21.43-23.15 *To Pacific and Japan* on 19.79 m
21.43-23.15 *To America* on 25.51 m and from 21.55 on 16.82 m.
22.10-23.15 *To Europe and British Isles* on 30.99 m

DX-PROGRAMMES:

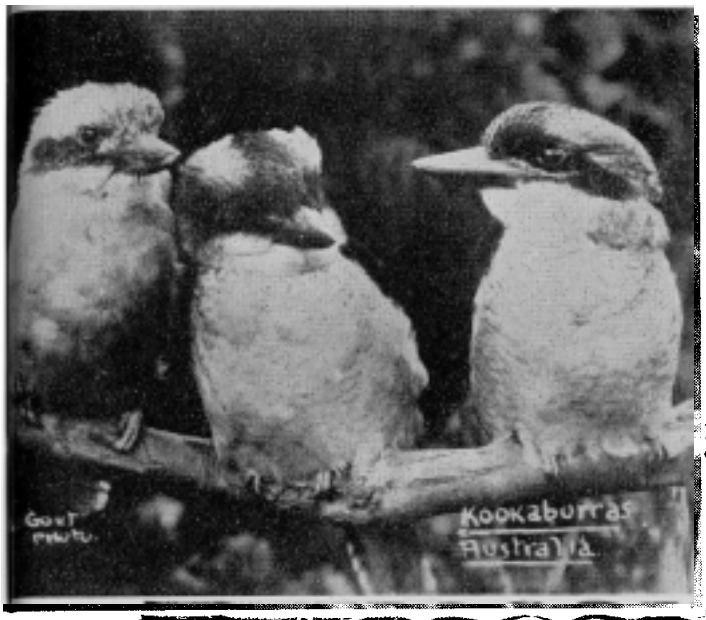
05.28 To *N. America (West Coast)* on 16.82, 19.59, 19.74 m. — To *Africa* on 13.93 m.
13.27 To *N. America (East Coast)* on 25.40, 31.45 m.
00.02 To *N. Asia, Europe and British Isles* on 19.74 m. — To *S. Asia, Europe and British Isles* on 19.72, 25.51. 25.62 m.

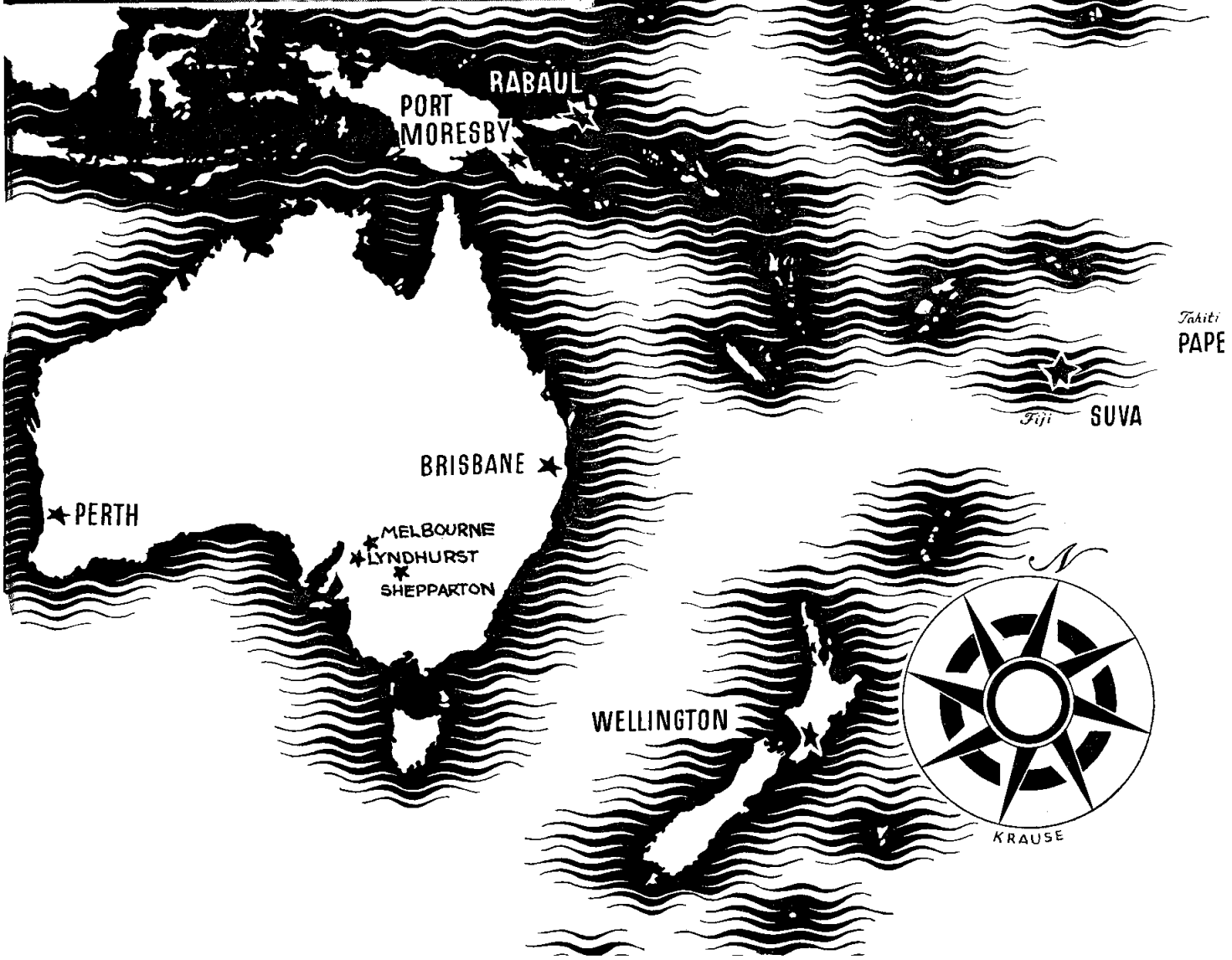
DAILY PROGRAMMES IN INDONESIAN

10.30-11.00 on 19.59 m

AUSTRALIA AND POLYNESIA

Radio Australia's broadcasts begin with the laughter of the Kookaburra bird, generally known in Australia as the "Laughing Jackass". The photograph depicts the Kookaburra.





map Australia Polynesia Kookaburra Radio Australia

DAILY PROGRAMMES IN GERMAN:
17.00-18.15 To Europe on 25.51 m, 30.99 m and 41.21 m

DAILY PROGRAMMES IN FRENCH
06.00-06.45 *To France and Indo-China* on 16.82 m
To Tahiti on 19.69 m (Sat. 19.74 m)
07.45-08.45 *To New Caledonia* on 25.62 and 19.59 m (from 08.00)

DAILY PROGRAMMES IN DUTCH
11.00-11.30 on 19.59 m

WEEKLY PROGRAMMES IN SIAMESE
06.30-06.50 *To Siam on Wednesday* on 19.74 m

Announcement: "This is Radio Australia calling". "You are tuned to the Overseas Service from Australia". "This is Radio Australia transmitting in the Overseas Service".

Identification: Musical box rendition of "Waltzing Matilda" is played for five minutes preceeding transmissions. Transmissions commence with Clock Chimes and the laugh of the Kookaburra, commonly known in Australia as the "Laughing Jackass". Gongs are used as programme cues only. "Waltzing Matilda" in march tempo preceedes and concludes all News Bulletins. *Indonesian* transmissions open with "Waltzing Matilda" played on piano-accordeon with instrumental ensemble. *Siamese transmissions* open with "The Peoples Song" and conclude with Siamese National Anthem.
French Transmissions open with "Marche Lorraine" and conclude with "La Marseillaise"

Message to Listeners: "Radio Australia welcomes letters from overseas listeners, likes to know the programme that interests you, also any suggestions or comments you may care to make."

HAWAII

Normal Clock Time — G. M. T. minus 10 hours.

Address: Armed Forces Service, A. P. O. 500, San Francisco, California.

Stations: *Honolulu, KRHO, 100 kW.*
15250 kc/s 19.67 m from 09.00-11.00 and 13.00-14.15.
17800 kc/s 16.85 m from 07.30-08.45.

Daily Programmes: Relay of United Nations and U.S.A. Programmes to Orient (see U.S.A.)
07.30-08.45 United Nations Programme to Pacific.
09.00-11.00, 13.00-14.15 U. S. A. Programmes to Orient.
Message to Listeners: Reports answered by QSL cards?

NEW CALEDONIA

Normal Clock Time — G. M. T. plus 11 hours.

Address: Radio Noumea, Service Information, Noumea.

Stations: Radio Noumea.
6000 kc/s 50.00 m 0,3 kW

Daily Programmes in French from 00.00-01.00 and 07.30-10.00.
00.12 Music, 07.30 Music, 09.00 News.
Announcement: "Noumea, La Voix de la France dans le Pacifique".

NEW ZEALAND

Normal Clock Time — G. M. T. plus 12 hours.

Address: New Zealand National Broadcasting Service, 38 The Terrace, P. O. Box 3045, Wellington C. 1.

Leading Personalities: Director: James Shelley. Chief Engineer: Mr. W. L. Harrison.

Stations. Shortwave Wellington, 10 kW.

ZL2	9540 kc/s	31.45 m	(at present inactive)
ZL3	11780 kc/s	25.47 m	
ZL4	15280 kc/s	19.63 m	

Daily Programmes: From 07.00-09.00, 08.30 News (exc. Sun.)
New Zealands Artists: Tuesday 07.15 — Saturday 08.40.
Listeners Digest: Saturday 08.00.
Maori Music: Sunday 07.40.
Mail Box: Thursday 08.00.

PHILIPPINE ISLANDS

Normal Clock Time — G. M. T. minus 8 hours.

Stations:

Manila	*	15330 kc/s	19.57 m	50 kW
Manila	*	11890 kc/s	25.23 m	50 kW
Manila	KZFM	11840 kc/s	25.34 m	0,4 kW
Manila	KZOK	9690 kc/s	30.96 m	0,25 kW
Manila	KZRH	9640 kc/s	31.12 m	1 kW
Manila	KZFM	9615 kc/s	31.20 m	0.4 kW
Manila	KZPI	9500 kc/s	31.58 m	0,25 kW
Manila	KZFM	6170 kc/s	48.62 m	0,4 kW
Cebu	KZRC	6140 kc/s	48.86 m	0,5 kW
Cebu	KZBU	6100 kc/s	49.18 m	0,25 kW
Manila	KZMB	6000 kc/s	50.00 m	1 kW

* The Voice of America.

MANILA BROADCASTING COMPANY, INCORPORATION

Address: *KZRH and KZMB-:* 7th Floor, Insular Life Building, Manila.
KZRC: Colon Street, Cebu City.

Leading Personalities: President: Mr. Bertrand H. Silen, Vice-President: Mr. William J. Dunn, General Manager: Mr. Wesley H. Wallace, Engineering Director: Mr. James Laschiver.

Stations: KZRH 9640 kc/s KZMB 6000 kc/s
KZRC 6140 kc/s

Daily Programmes: From 21.00—16.00.
KZRH: News at 23.00, 04.00, 12.45, 14.00.
KZMB: News at 22.00, 23.00, 04.00, 15.55.

Announcement: KZRH: "Manila Broadcasting Company" followed by three chimes c, a and f, then "This is KZRH, the Voice of the Philippines". **KZRC:** "This is KZRC, the Voice of Cebu". **KZMB:** "Manila Broadcasting Company" followed by the recorded voice of the ghekko lizard, and "The Voice of Manila".

PHILIPPINE BROADCASTING CORPORATION

Address: *KZPI and KZOK:* 4th Floor, Roces Building, Manila. *KZBU:* Gotiaoco Building, Calle Comercio, Cebu City.

Leading Personalities: General Manager: Mr. Bill N. Conine, Chief Engineer: Mr. Fred Da Silva, Program Director KZPI: Mr. Robert Stewart, KZOK: Mr. Noel Araneta, KZBU: Mr. George Cui.

Stations: KZPI 9500 kc/s KZOK 9690 kc/s
KZBU 6100 kc/s

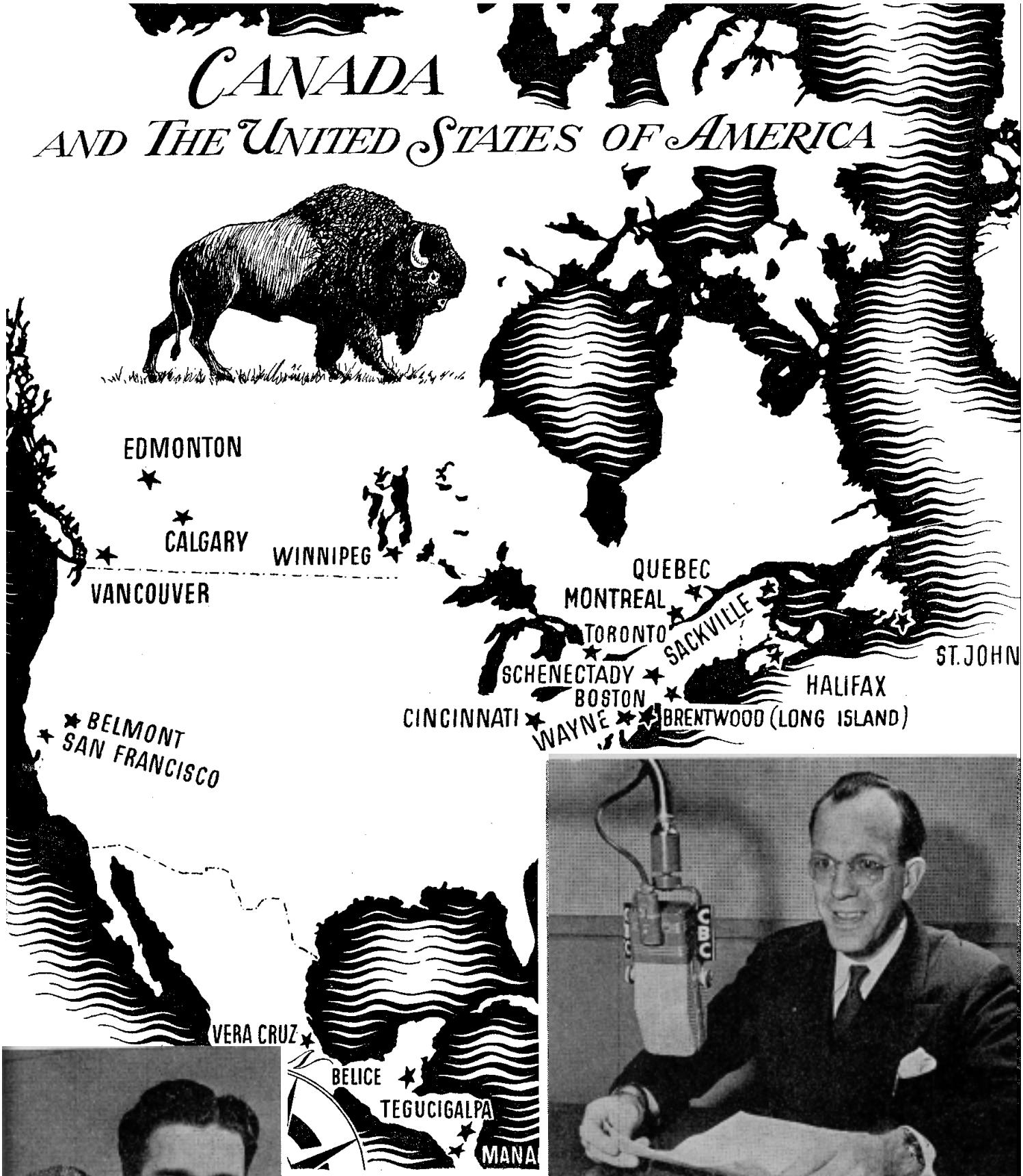
Daily Programmes: From 21.30-16.05 on KZPI
From 21.30-17.05 on KZOK
From 21.00-16.00 on KZBU
News on KZPI at 23.00, 04.00, 04.30, 08.00, 10.00, 13.00, 16.00.
News on KZOK at 23.00, 00.00, 01.00, 02.00, 03.00, 04.00, 04.30, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00.
News in Spanish on KZOK: 05.00 and 13.00.

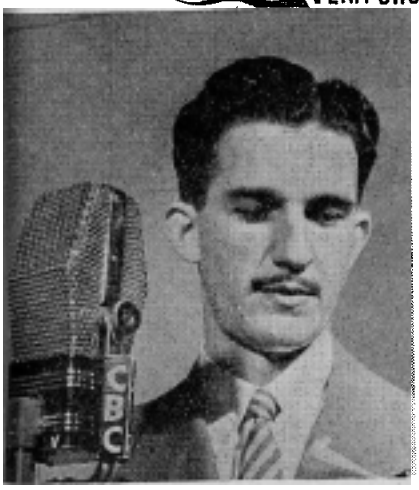
Announcement: "Radio Philippines" for KZPI. "Friendly Station" for KZOK and "Cebu calling" for KZBU.

THE PEOPLE'S STATION

Address: The Government Broadcasting Station KZFM, City Hall, Manila.

CANADA
AND THE UNITED STATES OF AMERICA





Canada transmits every evening for listeners in Brazil. Here is Geraldo Trindade, who directs daily one-hour broadcasts in Portuguese from 00.30-01.30. Programs are fed by landlines to Canada's shortwave transmitter at Sackville.

Canadian shortwave programs are directed to Swede from the BBC's 50.000-Watt transmitter at Sackvill New Brunswick. Here is Gunnar Kristiansson, wh plans daily broadcasts in Swedish from 19.00-19.20 GM

map Canada USA Gunnar Kristiansson Geraldo Trinidade Sackville Canada

Leading Personalities: Managing Director: Mr. Francisco Trinidad.

Stations: KZFM: 11840 kc/s — 9615 kc/s — 6170 kc/s

Daily Programmes: From 21.00-16.00.
News at 23.00, 04.00, 10.00, 12.45 and 14.00.

Announcement: "KZFM, the People's Station".

THE VOICE OF AMERICA

Address: The Foreign Service of the United States of America, International Broadcasting Division, American Embassy, Manila.

Leading Personalities: Chief Engineer: Mr. George H. Chapman.

Stations: 15330 kc/s and 11890 kc/s.

Daily Programmes: see U.S.A.
07.30-08.45 Relay of the United Nations Programme to the Pacific.
09.00-11.00 and 13.00-14.15 Relay of the Voice of America Programme to the Orient.

Announcement: "This is Manilla, relaying the Voice of America".

TAHITI

Normal Clock Time — G. M. T. minus 10 hours.
Address: Radio Club Oceania, Papeete.

Stations: Radio Club Oceania.
FO8AA 6980 kc/s 42.98 m 0,1 kW

Daily Programmes from 03.15-05.00 on Tuesdays and Fridays.

CANADA

Altantic Zone — G. M. T. minus 4 hours.
Eastern Zone — G. M. T. minus 5 hours.
Central Zone — G. M. T. minus 6 hours.
Mountain Zone — G. M. T. minus 7 hours.
Pacific Zone — G. M. T. minus 8 hours.

Stations:
CBC International Service: Sackville, 50 kW.

CKNC	17820 kc/s	16.84 m
CKCS	15320 kc/s	19.58 m
CKCX	15190 kc/s	19.75 m
CKRA	11760 kc/s	25.51 m
CHOL	11720 kc/s	25.60 m
CKLO	9630 kc/s	31.15 m
CHLS	9610 kc/s	31.22 m
CKOB	6090 kc/s	49.26 m

Other Stations:

Sydney	CJCX	6010 kc/s	49.92 m	1 kW
Calgary	CFVP	6030 kc/s	49.75 m	0,2 kW
Toronto	CFRX	6070 kc/s	49.42 m	1 kW
Vancouver	CKFX	6080 kc/s	49.32 m	0,01 kW
Montreal	CBFW	6090 kc/s	49.25 m	0,2 kW
Halifax	CHNX	6130 kc/s	48.94 m	0,5 kW
Vancouver	CBRX	6160 kc/s	48.70 m	0,15 kW
Edmonton	VE9AJ	9540 kc/s	31.45 m	0,25 kW
Montreal	CBLX	15090 kc/s	19.88 m	7,5 kW

The Sackville frequencies listed above are those assigned to Canada by international convention.

CBC INTERNATIONAL SERVICE

Address: Canadian Broadcasting Corporation, International Service, P. O. Box 7.000, Montreal, Canada.

Leading Personalities: General Supervisor: Mr. Ira Dilworth. Asst. General Supervisor: Mr. C. R. Delafield. Supervisor European Section: Mr. G. W. Griffiths. Supervisor United Kingdom Section: Mr. J. S. Peach. Supervisor French Section: Mr. G. Arthur. Supervisor Latin America Section: Mr. H. W. Morrison, Senior Engineer: Mr. P. W. Johnson.

Note:
All international shortwave broadcasts from Canada are directed by the CBC International Service, which is owned by the people of Canada. All programs are produced in Montreal and beamed from 50-kilowatt transmitters at Sackville, New Brunswick, near the Atlantic Coast. The CBC International Service was inaugurated Feb. 25, 1945.

Daily Programmes to Europe:

CKNC	17820 kc/s.	From 15.00-18.30
CKCX	15190 kc/s.	From 15.00-16.25.
CKCS	15320 kc/s.	From 16.30-19.00
CHOL	11720 kc/s.	From 19.20-22.00
CKLO	9630 kc/s.	From 18.45-23.30
CKOB	6090 kc/s.	From 22.15-23.15

15.00-15.30 Opening Announcements.
15.30-15.45 News in English.
15.45-16.00 News in Dutch and Progr.
Sun.: German for Austria.
16.00-16.30 Experimental Program
16.30-17.00 Czech.
17.00-17.15 News in English.
17.15-18.30 Programme in French (Sundays)
17.15-17.30 Actualities in English (Weekdays)
Sat.: English children's program.
17.30-17.45 Czech News and Progr. (Weekdays)
17.45-18.00 Classical Music. (French). (Weekdays)
18.00-18.30 French News and Program. (Weekdays)
18.30-19.00 Dutch News and Program.
19.00-19.20 Swedish Programme.
19.20-19.40 Norwegian Program.
19.40-20.00 Danish Program.
20.00-20.30 Czech News and Program.
20.30-21.00 German News and Program.
21.00-21.30 French News and Program.
21.30-23.00 News in English and Program.
23.00-23.15 Czech News (exc. Sat. and Sun.).
23.00-23.30 German (Saturdays)
23.15-23.30 German News (exc. Sat. and Sun.).

Daily Programmes to Caribbean:
CKCX 15190 kc/s
23.45-00.30 English news and program.

Daily Programmes to Latin America:
CKRA 11760 kc/s 23.45-03.15
CKLO 9630 kc/s 00.45-03.15
23.45-00.30 News in Spanish and Program.
00.30-01.30 News in Portuguese and Program. — For Brazil.
01.30-02.30 News in Spanish and Program. — For Mexico, Central- and South America.
02.30-02.45 News in French.
02.45-03.15 News in English

Daily Programmes to Australia and Pacific:
CHOL 11720 kc/s and CHLS 9610 kc/s
08.45-10.35 English Program (Sundays)

Interval-Signal: First four notes of the national anthem "O Canada":

Message to Listeners: The Voice of Canada greets shortwave listeners everywhere, and welcomes queries and comments of all kinds. Please write to Box 7.000, Montreal.

CANADIAN BROADCASTING CORP.

Address: Canadian Broadcasting Corporation, 1231 St. Catherine Street West, Montreal, Quebec (Eastern Zone). Canadian Broadcasting Corporation Vancouver British Columbia (Pacific Zone).

Leading Personalities: Chairman of the Board of Governors: Mr. A. D. Dunton. General Manager: Dr. Augustin Frigon. Director General of Programme: Mr. E. L. Bushnell.

Stations:

Vancouver	CBRX	6160 kc/s	48.70 m	0,15 kW
Montreal	CBFW	6090 kc/s	49.25 m	0,2 kW
Montreal	CBLX	15090 kc/s	19.88 m	7,5 kW

Daily Programmes for Montreal:

On 19.88 m *English* from 11.00-16.00; *French* 16.00-04.00.
On 49.25 m *French* from 11.00-04.00.

Daily Programmes for Vancouver from 15.00-07.00.

NEW FOUNDLAND

Normal Clock Time — G. M. T. minus 3½ hours.

Address: Broadcasting Corporation of New Foundland, P. O. Box E 5372. St. Johns.
Leading Personalities: Manager: Mr. W. F. Galgay. Chief Studio Controller: Mr. A. N. House.

Stations: St. Johns 0,3 kW
VONH 5970 kc/s 50.25 m Relay VONF

Daily programmes from 13.30-18.00, 21.15-02.00.
Sun: 15.30-21.15, 22.00-02.00.

UNITED STATES OF AMERICA

Eastern Zone Normal Clock Time — G. M. T. minus 5
Central Zone — G. M. T. minus 6 hours.
Mountain Zone — G. M. T. minus 7 hours.
Pacific Zone — G. M. T. minus 8 hours.

The Voice of the United States of America is the radio medium employed to promote the better understanding of the United States among the peoples of the world and to strengthen cooperative international relations.
36 shortwave transmitters in the United States, ranging from 10.000 to 200.000 watts in power., 10 transmitters on the Pacific Coast, 26 transmitters in the Middle West and on the East Coast. Government owned and controlled shortwave relay operations at Honolulu (KRHO), Manila and Munich. Other relays through arrangements with Domestic, Broadcasting of other countries, such as Austria. B. B. C. in Great Britain, France, Germany, Italy, China and Korea. Programme schedules of *"The Voice of the U. S. A."* are prepared in New York and mailed upon request to interested groups or individuals abroad. They can also be obtained through the local U. S. Information Office of every country.
All applications for monthly programmes, for further information on current programmes, radio reception reports and comments, should be sent direct to the *"Voice of the U. S. A."*.

The International Broadcasting Division is responsible for the planning, execution and content of programmes. Programmes are written, produced and broadcast from studios in New York City. By contract the National Broadcasting Company (NBC) and the Columbia Broadcasting System (CBS) produce programmes, which are integrated with the output of the Department of State to Europe, Latin America and the Far East.

LEADING PERSONALITIES: *The International Broadcasting Division* (IBD) is a division of *the Office of Information and Educational Exchange* (OIE) of the Department of State, and is under the jurisdiction of the *Assistant Secretary of State for Public Affairs, George V. Allen.* Officials of the O. I. E. and I. B D. directly responsible for the operation are: *William T. Stone, Director of O. I. E. — Leland Barrows, Deputy Director, O. I. E.*
I. B. D. Officials are: *Charles W. Thaper, Acting Chief. — Forney A. Rankin, Associate Chief,* in charge of high frequency conference affairs and plans. — *Musio Delgado, Acting Associate Chief,* in charge of the Washington office. — *Robert Ross, Program Branch.* — *John Doud, Chief Facilities Branch.*

ADDRESSES of the main companies and organisations, are as follows:
The Voice of the United States of America, Office of Information and Educational Exchange International Broadcasting Division, U. S. Department of State, 224 West 57 Street, New York 19.
Washington headquarters of I. B. D. are at 18th and Pennsylvania Avenue. N. W.
United Nations Network, Radio Liaison Office, United Nations, Lake Success, New York.
The Associated Broadcasting Inc., Mark Hopkins Hotel, San Francisco.
Columbia Broadcasting System Inc., 485 Madison Avenue, New York 22.
Crosley Corporation, 149 West 9th Street, Cincinnati.
General Electric Company, 1 River Road, Schenectady, New York.
National Broadcasting Corporation Inc., 30 Rockefeller Plaza, New York 20.
Westinghouse Radio Station Inc., 275 Tremont Street, Boston 16.
The World Wide Broadcasting Foundation, 133 Commenwealth Avenue, Boston 16.
Armed Forces Radio Service, A. P. O. 500, San Francisco.

STATIONS
U. S. A.s shortwave stations are divided into two main groups: East Coast stations, whose call-letters begin with W, and West Coast stations whose call-letters begin with K. In some cases the other letters of the call-sign denote the ownership of transmitter. There are one or more frequencies for each call-sign, and each company may change the frequencies used for the different call-letters.
The U. S. government, through the Department of State, leases the transmitters from the private operators. CBS and NBC, under contract with the State Department, programmes most of the service. The State Department has retained the direct programming of the languages of Eastern Europe — and China and Korea in the Far East. (Only WRUL and WRUW, operated by the *World Wide Broadcasting Foundation,* are partially programmed independent of the government operation.

DAILY PROGRAMMES
International shortwave programs from the United States fall into three main categories: news, editorial and information which includes news analysis, editorial comment and all basically informational programs such as round table discussions, documentaries, etc., music and entertainment.

MESSAGE TO LISTENERS: Reports are answered by QSL cards with letters written if special information desired. Skeds sent on request. Return postage optional.

EUROPEAN SERVICE

STATIONS AND FREQUENCIES

WNRA	11770 kc/s	25.49 m	WNBI	17780 kc/s	16.87 m
WOOW	11870 kc/s	25.27 m	WCBX	17830 kc/s	16.83 m
WOOC	15130 kc/s	19.83 m	WNRI	18160 kc/s	16.52 m
WRCA	15150 kc/s	19.80 m	WCRC	21570 kc/s	13.91 m
WRUA	15200 kc/s	19.74 m	WNRA	21610 kc/s	13.88 m
WBOS	15210 kc/s	19.72 m	WLWS	21650 kc/s	13.86 m

WLWR	15250 kc/s	19.67 m	WLWL	21690 kc/s	13.83 m
WNRE	15280 kc/s	19.63 m	WNRX	21730 kc/s	13.81 m
WRUL	15350 kc/s	19.54 m	WRUX	25600 kc/s	11.72 m
WGEX	17880 kc/s	16.78 m			

Relay Stations:

Munich III	6080 kc/s	49.34 m
Munich I	6170 kc/s	48.62 m
Munich IV	7250 kc/s	41.38 m
Munich II	9540 kc/s	31.45 m
Munich I	11870 kc/s	25.27 m

Daily Programmes:

14.15-14.30	Italian.	19.00-22.00	A. F. R. S. in English.
16.00-17.45	English.	19.30-20.00	Rumanian, Greek
16.00-19.00	English.	20.00-20.30	Italian, Hungarian.
16.15-16.45	Polish.	20.30-21.00	Polish, Yugoslav.
16.45-17.00	Austrian.	21.00-21.30	Russian.
17.00-17.30	English.	21.30-21.45	Austrian, English.
17.30-18.00	French, Italian.	21.45-22.00	Hungarian.
17.45-18.00	Yugoslav.	22.00-22.30	French, Spanish, Czech.
18.00-18.30	German.	22.30-23.15	English.
18.00-19.00	Russian.		
18.30-19.00	French.		
19.00-19.30	English, Czech, Hungarian.		

EUROPEAN SERVICE UNDER LANGUAGES

English: "The Voice of America".

16.00 Programme Preview and Music in 11-13-16 m. b. (Relayed by Munich in 25-31-41-49 m. b.)
16.15 Report from America in 11-13-16 m. b. (Relayed by Munich in 25 m. b. and BBC in 267, 25-31-41 m. b.)
16.45 Music in 11-13-16-19 m. b. (Relayed by Munich in 25-31-41-49 m. b.)
17.00 Feature Programme in 11-13-16-19 m. b. (Relayed by Munich in 25-31-41-49 m. b. and BBC in 19-25-31 m. b.)
17.30 News and Comments in 13-16-19 m. b. (Relayed by Munich in 25 m. b.)
17.30 Preview and Music in 13-16-19 m. b. (Relayed by Munich in 31-41 m. b.)
18.00 Feature Programme in 13-16-19 m. b.
19.00 News and Commentary in 13-16-19 m. b. (Relayed by BBC in 25-31-41 m. b.)
19.15 Balkan News and Music in 13-16-19 m. b. (Relayed by BBC in 41-31-25 m. b. and Munich in 49 m. b.)
21.30 News in 13-16-19-25 m. b. (Relayed by Munich in 31-41-49 m. b.)
22.30 News and Comments in 16-19-25 m. b. (Relayed by Munich in 31-41-49 m. b.)
23.00 Music and News in 16-19 m. b. (Relayed by Munich in 31-41-49 m. b.)

Austrian:

16.45-17.00 Report from New York in 13-16-19 m. b. Relayed by BBC in 19-25-31 m. b. and Rot-Weiss-Rot Network, Austria.)
21.30-21.45 America calling. (IBD) in 13-16-19-25 m. b. (Relayed by BBC in 31-41 m. b., Munich in 49 m. b. and Rot-Weiss-Rot Network.)

Bulgarian:

19.00-19.30 America calling. (IBD) in 13-16-19 m. b. (Relayed by Munich in 31-41 m. b. and BBC in 25-31 m. b.)

Czech:

19.00-19.30 America calling. (IBD) in 13-16-19 m. b. (Relayed by BBC in 25-31 m. b. and Munich in 49 m. b.)
22.00-22.30 Report from America in 13-16-19 m. b. (Relayed by Munich in 31-41-49 m. b. and BBC in 31-41-49 m. b.)

French:

17.30-18.00 America calling. (IBD) in 13-16-19 m. b. (Relayed by Radiodiffusion Francaise.)
19.30-20.00 Journal Parlé from Radiodiffusion, Francaise, Paris in 13-16-19 m. b.
22.00-22.30 Reports from America in 16-19-25 m. b. (Relayed by BBC in 267, 49-41-31 m. b.)

German:

18.00-18.30 America calling in 13-16-19 m. b. (Relayed by German stations: Stuttgart, Bremen, Berlin, Munich and Frankfurt.)

Greek:

19.30-20.00 Reports from America in 13-16-19 m. b. (Relayed by Munich in 19-31 m. b. and BBC in 19-41 m. b.)

Hungarian:

20.00-20.30 Reports from America in 13-16-19 m. b. (Relayed by Munich in 41-49 m. b. and BBC in 19-25-31-41 m. b.)
21.45-22.00 America calling in 13-16-19-25 m. b. (Relayed by Munich in 41-49 m. b. and BBC in 31-41-49 m. b.)

Italian:

14.15-14.30 Music and Feature in 13-16 m. b. (Relayed by Radio Italiano.)
17.30-18.00 Italian Hour in 13-16-19 m. b. (Relayed by BBC in 19-25-31-41 m. b. and Munich in 49 m. b.)
20.00-20.30 Italian Hour in 13-16-19-25 m. b. (Relayed by BBC in 25-31 m. b. and Munich in 31-49 m. b.)

Polish:

16.15-16.45 America calling. (IBD) in 13-16-19 m. b. (Relayed by BBC in 1796-456-25-31-41 m. b. and Munich in 31-41-49 m. b.)
20.30-21.00 America calling in 13-16-19-25 m. b. (Relayed by BBC in 31-41-49 m. b. and Munich in 41-49 m. b.)

Rumanian:

18.00-19.00 America calling in 13-16-19-25 m. b. (Relayed by BBC in 25-31-41 m. b. and Munich in 25-31-41-49 m. b.)
19.30-20.00 America calling in 13-16-19-25 m. b. (Relayed by BBC in 25-31 m. b. and Munich in 41-49 m. b.)
21.00-21.30 America calling in 13-16-19-25 m. b. (Relayed by BBC in 31-41-49 m. b. and Munich in 31-41-49 m. b.)

Yugoslav:

17.45-18.00 America calling in 13-16-19 m. b. (Relayed by BBC in 19-31 m. b and Munich in 31-41 m. b.)
20.30-21.00 Report from America in 13-16-19-25 m. b. (Relayed by BBC 25-31 m. b. and Munich in 41-49 m. b.)

ORIENT

STATIONS AND FREQUENCIES

KWID	9570 kc/s	31.35 m	KNBX	11790 kc/s	25.45 m
KNBA	6060kc/s	49.50 m	KGEX	11730 kc/s	25.58 m
KNBI	9750 kc/s	30.77 m	KCBR	15130 kc/s	19.67 m

Relay Stations:

KRHO, Honolulu	15250 kc/s	19.67 m
Manila	11890 kc/s	25.23 m

DAILY PROGRAMMES

In English: from 09.00-11.00 and 13.00-14.15.

09.00 News (NBC)
09.30 Feature Progr. (NBC) Symphony Concert (Sun.)
10.30 Music (exc. Sun), Radio Forum (Sun.)
10.45 News
13.00 News
13.15 Feature Programme

Other Languages:

Russian: 11.00-11.30; Korean 11.30-12.00 (Relayed by Korean S.W.); Chinese: 12.00-13.00 (Relayed by Chinese S.W. XLDA, XTPA, XPRA and XLRA)

LATIN AMERICA

STATIONS AND FREQUENCIES

WRUS	6040 kc/s	49.67 m	KNBX	15250 kc/s	19.67 m
WLWO	6080 kc/s	49.34 m	WCBN	15270 kc/s	19.65 m
WGEO	9525 kc/s	31.50 m	WRUA	15290 kc/s	19.62 m
WRUW	9570 kc/s	31.35 m	WLWR	15330 kc/s	19.57 m
WNRX	9670 kc/s	31.02 m	KWID	17760 kc/s	16.89 m
WLWS	9700 kc/s	30.93 m	WNBI	17780 kc/s	16.87 m
WLWR	11710 kc/s	25.62 m	WLWK	17800 kc/s	16.85 m
KNBI	11770 kc/s	25.49 m	WCBX	17830 kc/s	16.83 m
WRUL	11790 kc/s	25.45 m	KNBA	21460 kc/s	13.98 m
WCRC	11830 kc/s	25.36 m	WCRC	21570 kc/s	13.91 m
KCBR	15130 kc/s	19.83 m	WLWS	21650 kc/s	13.86 m
WRCA	15150 kc/s	19.80 m			

DAILY PROGRAMMES

In Spanish from 23.30-23.45 in 13-16-19 m. b. and 00.00-01.00 in 13-16-19-25-31-49 m. b.

23.30 News, Music
00.00 News, News Analysis
00.15 Music, Talk (exc. Sun.)
Symphony Concert (Sun.)
00.45 Feature Programme

In Portuguese from 00.30-01.00 in 16-19-25-31 m. b. Feature Programme, News and Music.

In English from 01.00-02.00 in 13-16-19 25-31-49 m. b.

01.00 News, Sport
01.15 Feature Progr. (Weekd.)
Town Meeting (Sun.)
01.45 Commentators Digest (exc. Sun.)

ARMED FORCES RADIO SERVICE

TO EUROPE, AFRICA AND CENTRAL & SOUTH AMERICA

Stations:

WRCA	15150 kc/s	19.80 m.	From 19.00-22.00
WBOS	15210 kc/s	19.72 m.	From 19.00-22.00
WGEX	17880 kc/s	16.78 m.	From 19.00-22.00
WNRX	21730 kc/s	13.81 m.	From 19.00-22.00

Daily Programmes: News at 21.45. The other Programmes mostly consist of Sport, Music and Variety.

TO PACIFIC AND ORIENT

Stations and Frequencies:

KGEI	9530 kc/s	31.48 m	KCBA	15150 kc/s	19.80 m
KWIX	9570 kc/s	31.34 m	KGEI	15210 kc/s	19.72 m
KCBF	9700 kc/s	30.93 m	KNBX	15250 kc/s	19.67 m
KGEX	11730 kc/s	25.58 m	KCBA	15330 kc/s	19.57 m
KWIX	11860 kc/s	25.30 m	KCBF	17850 kc/s	16.81 m
KWID	11900 kc/s	25.21 m			

Daily Programmes to Pacific and Orient from 03.15-14.30 News at 03.15, 05.00, 06.00, 07.00, 08.00, 09.00, 10.00, 11.00, 13.00, 14.00.

WORLD WIDE BROADCASTING FOUNDATION

Address: Box 320, Hatherly Beach, Scituate, Mass.

Leading Personalities: President and Founder: Mr. Walter S. Lemmon. Program Director: Mr. Onno Liebert. Station Manager: Mr. Wyman Holmes. Chief Engineer: Mr. McDonald.

Stations:

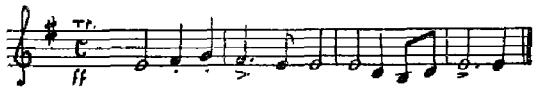
WRUL	15350 kc/s	19.54 m	WRUW	17755 kc/s	16.90 m
	15290 kc/s	19.62 m		11730 kc/s	25.58 m
	11790 kc/s	25.45 m		9570 kc/s	31.35 m
WRUX	11740 kc/s	25.55 m			
	17755 kc/s	16.90 m			

Daily Programmes: From 19.00-20.30, 22.15-23.00 and 02.00-03.00.

19.00 Italian (Mon. to Sat.)
19.15 French (Mon., Tuesd., Wedn., Fri.)
19.30 Dutch (Mon. to Fri.)
19.45 Norwegian (Sun. to Fri.) Danish (Sat.)
20.00 English Programme
22.15 English to Latin America
02.00 United Nations News (Mon. to Sat.)

Announcement: "This is the World Radio University, Stations WRUL, WRUW and WRUX, in Boston, United States of America." Regular full Announcement: "This is your station, WRUL, The World Radio University, Boston, United States of America. *Your* stations means that we are a non-profit, non-commercial, non-government station, supported by constributions of private citizens all over the world, and by your letters. You can find us in the 16, 19, and 25 meter bands."

Interval-signal:



Message to Liteners: "QSL cards will be sent directly to you from our transmitter at Scituate, Massachusetts."

UNITED NATIONS

Address: United Nations Radio Division, Lake Success, New York, U. S. A.

Leading Personalites: Director of U. N. Radio Division: Mr. Peter Aylen. Deputy Director: Mr. Carlos Garcia-Palacios. Chief Communications Engineer: General Frank E. Stoner. Chief of Production: Mr. W. Gibson Parker. Regional Chiefs: Mr. Hugh Williams, Mr. George Ivan Smith.

Stations:

WRUW	9570 kc/s	31.35 m	CKNC	17820 kc/s	16.84 m
KNBA	9650 kc/s	31.09 m	WRCA	15150 kc/s	19.80 m
WNRX	9670 kc/s	31.02 m	WRUL	15290 kc/s	19.62 m
WLWR	11710 kc/s	25.62 m	WLWR	15330 kc/s	19.57 m
WRUL	11730 kc/s	25.58 m	WRUX	17750 kc/s	16.90 m
WRUW	11730 kc/s	25.58 m	WGBX	17830 kc/s	16.83 m
WOOC	15130 kc/s	19.83 m	WNRI	18160 kc/s	16.52 m
KNBI	15130 kc/s	19.83 m	WRUX	21460 kc/s	13.99 m
CKCX	15190 kc/s	19.75 m	WNRA	21610 kc/s	13.88 m
CKCS	15320 kc/s	19.58 m			

Relay Stations:

KRHO	17800 kc/s	16.85 m	Manilla	15330 kc/s	19.57 m

* The United Nations Radio operations have been altered by the General Assembly in Paris, which may be terminated by the time many readers examine the information below. At the time of going to press it is impossible to anticipate full details of the transmissions thereafter. It may be expected, however, that many of the well-established arrangements will be restored, and therefore the UN schedules as existing before the Paris Assembly of September 1948 et seq. are re-published below as a general guide. In any case, the Latin American and Pacific services have remained unaltered throughout."

Daily Programmes:

The United Nations broadcast daily Monday through Saturday, except as noted, programmes of news, com-

ment, interviews, and background talks, on the work of the organization and of the Specialized Agencies. The broadcasts, mostly by shortwave, are made possible through the cooperation of the U. S. Department of State, the International Service of the Canadian Broadcasting Corporation, and the World Wide Broadcasting Foundation.

To Europe: From 14.15-15.15, 17.30-19.00, 21.35-22.15.
CKNC 17820 kc/s and CKCX 15191 kc/s
14.15-14-24 Swedish (Tuesday)
Norwegian (Friday)
14.24-14.30 Danish (Tuesd. to Friday)
14.30-15.00 Russian
WOOC 15130 kc/s, WNRI 18116 kc/s, WNRA 21610 kc/s
17.30-17.40 French (Relayed by Radiodiffusion Française)
17.50-17.55 Dutch (Relayed by Nederlandse Radio Unie)
18.30-19.00 French. Programme and News
WRUL 15290 kc/s, WRUW 17755 kc/s, WRUX 21460 kc/s
21.35 21.45 French Programme
21.45-22.00 News in French
22.00-22.15 News in English

To the Middle East:
CKCS 15320 kc/s, CKHC 17820 kc/s
13.45-13.55 Turkish
WNRX 18160 kc/s, WOOC 15130 kc/s, WNRA 21610 kc/s
17.40-17.50 Hebrew
18.10-18.20 Arabic
WRUL 15290 kc/s, WRUW 17755 kc/s, WRUX 21460 kc/s
21.15-21.25 Arabic
21.25-21.35 Hebrew

Relay of Meetings. Daily from 16.00 to 23.00
Many of the meetings at Lake Success are broadcast directly to Europe with a running narration in English and French. Announcement of such broadcasts is made the same day at 13.30 G. M. T. on CKNC and CKCX. Morning meetings usually begin at 16.00 G. M. T., but exceptionally at any time after 14.00 G. M. T. Afteroon meetings usually begin at 19.00.

To Latin America:

WGEO	9525 kc/s
WNRX	9670 kc/s
WLWR	11710 kc/s
WRUW	11730 kc/s
WRCA	15150 kc/s
WRUL	15290 kc/s
WLWR	15330 kc/s
WCBX	17830 kc/s

Daily exc. Sundays:
23.00-23.45 Spanish (News and Progr.)
23.45-23.53 Portuguese News Retransmitted by Radio Nacional, Rio de Janeiro
23.53-24.00 Spanish (News)
WRUL 11730 kc/s
WRUW 9570 kc/s
02.00-03.00 Spanish. News

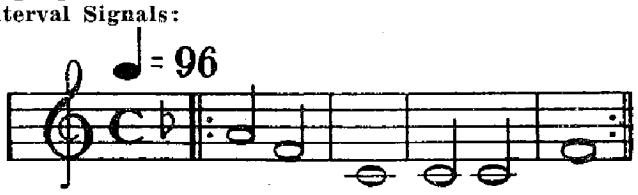
To the Pacific:

KNBA	9650 kc/s
KNBI	15130 kc/s
KRHO	17800 kc/s
Manilla	15330 kc/s

Daily exc. Mondays:
07.30-07.35 English (News summary)
07.35-07.45 Tagalog (for Philippines)
07.45-07.50 French (News)
07.50-08.00 English (News)
08.00-08.15 English (Progr.)
08.15-08.30 Chinese (Progr.)
08.30-08.45 Chinese (Talks etc.)
CKNC 17820 kc/s
CKCS 15320 kc/s
03.10-03.30 English Progr. and News

Announcements: "This is the United Nations calling the peoples of the World." This introductory phrase is used in all of the official UN programmes in all of the languages concerned.

Interval Signals:



Message to Listeners: Comments, suggestions, and detailed reception reports are welcomed by the UN Radio Division, Lake Success, N. Y., U. S. A.; and answers will be forthcoming. Listeners can help, and have helped, UN Radio greatly by their letters, and these are solicited.

CENTRAL AMERICA

COSTA RICA

Normal Clock Time — G. M. T. minus 6 hours.

Stations:

TIGPH	5875 kc/s	51.06 m	1 kW
TIRH	6153 kc/s	48.75 m	0,25 kW
TILS	6165 kc/s	48.66 m	1 kW
TIRCC	6180 kc/s	48.54 m	0,3 kW
TIEP	6700 kc/s	44.78 m	1 kW
TIPG	9615 kc/s	31.20 m	3 kW
TINRH	9692 kc/s	30.95 m	0,75 kW

TILS: RADIODIFUSORA PARA TI, SAN JOSÉ
Address: Apartado 3, San José.

Leading Personalities: Owner and General Manager, Mr. Luis Saenz Mata.

Daily Programmes in *Spanish* from 16.00-04.30.

Announcement: "TILS Radio Para Ti en San José de Costa Rica en la America Central".

TIGPH: ALMA TICA SAN JOSÉ
Address: Apartado 800, San José.

TIEP: LA VOZ DEL TROPICO San JOSÉ
Address: Apartado 257, San José.

TIPG: LA VOZ DE LA VICTOR SAN JOSÉ
Address: Apartado 225, San José.

Daily Programmes from 12.15-05.00.
Programmes consist entirely of talks, records and news.

TINRH: LA VOZ DEL COSTA RICA, HEREDIA
Address: Apartado 1064, Heredia.

TIRRC — RADIOEMISORA CATOLICA, SAN JOSÉ

TIRH — RADIO EL MUNDO, SAN JOSÉ

CUBA

Normal Clock Time — G. M. T. minus 5 hours.

Stations:

COX-7	4290 kc/s	69.63 m	5 kW
COCO	6010 kc/s	49.92 m	5 kW
COBF	6040 kc/s	49.67 m	1 kW
COCD	6130 kc/s	48.94 m	1 kW
COCW	6327 kc/s	47.43 m	1 kW
CMHW	6330 kc/s	47.40 m	1 kW
COHI	6450 kc/s	46.51 m	5 kW
COJK	8666 kc/s	34.62 m	1 kW
COCO	8700 kc/s	34.48 m	5 kW
COCQ	8825 kc/s	33.92 m	5 kW
COKG	8960 kc/s	33.48 m	0,5 kW
COBZ	9026 kc/s	33.24 m	1 kW
COBQ	9235 kc/s	32.49 m	1 kW
COCX	9273 kc/s	32.33 m	1 kW
COBC	9380 kc/s	31.98 m	1 kW
COCH	9437 kc/s	31.80 m	5 kW

CENTRAL- AND SOUTH AMERICA

HABANA
ST. CLARA
MEXICO CITY
PORT-AU-PR.
SANTIAGO
CIUDAD TRUJILLO
QUEZALTENANGO
GUATEMALA CITY
SAN SALVADOR
COLON
CARACAS
BOLIVAR
SAN JOSE
MEDELLIN
PANAMA CITY
BOGOTA
QUITO
GUAYAQUIL
FORTALEZA
RECIFE
LIMA
LA PAZ
RIO DE JANEIRO
SAO PAULO
ANTOFAGOSTA
ASUNCION
ENCARNACION
MENDOZA
ROSARIO
VALPARAISO
SANTIAGO
MONTEVIDEO
BUENOS AIRES

Joseph Schuster prepares for a broadcast in Radio El Mundo's Studio (Argentina). He is flanked by the Announcer Jorge Hornar Del Rio, Radio El Mundo's popular Director Senor Oscar Luis Massa and the composer of Radio El Mundos beautiful signature tune Maestro Alberto Castellanos.

map South America Argentina Radio El Mundo Joseph Schuster Jorge Honar del Rio Oscar Luis Massa Alberto Castellanos

COX-4	9640 kc/s	31.12 m	5 kW
COBL	9833 kc/s	30.51 m	1 kW
COCY	11740 kc/s	25.55 m	5 kW

COX7/COX4 RADIO EDUCACION
Address: Ministry of Education Havana.
Daily Programmes from 07.00-00.00.

COCQ — CIRCUITO CMQ
Address: Circuito CMQ, S. A., Radiocentro, Havana.

Leading Personalities: General Manager: Goar Mestre. Chief Engineer: Ventura Montes. Director of News: Sr. Angel Cambó. Director of Programmes: Sr. Manual Cores.

Daily Programmes in *Spanish* from 11.30-05.30.
News at 11.45, 12.30, 12.45, 16.55 (Sunday 15.55), 17.25, 22.45, 23.25, 01.53, 03.24 and 04.00.

Announcement: "CMQ Radiocentro, Sa Habana." Announcements are made between all programmes approximately every 15 minuttes.

Interval-Signal: Two bells before saying CMQ Habana.

Message to Listeners: Reports are verified by QSL-card.

COCO — RADIO AMERICA
Address: Radio America S. A., Compania Radiodifusora, San Miguel 314, Havana.
Daily Programmes in *Spanish* from 12.00-04.30.

COCH — RADIO O'SHEA
Address: Radio O'SHEA, Havana.
Daily Programmes in *Spanish* from 11.00-06.00.

COCY/COCW/CMHW — RHC CADENA AZUL
Address: RHC — Cadena Azul, Apartado 770, Havana.
Leading Personalities: President and General Manager: Mr. Amado Trinidad Velasco.
Daily Programmes in *Spanish* from 10.30-05.00.
Announcement: Call letters of the network are broadcast every half hour and the name: "RHC-Cadena Azul."
Message to Listeners: Reports verified by QSL-card.

COBF — RADIO UNIVERSAL
Address: Radio Universal S. A., Prado 159, Havana.
Daily Programmes in *Spanish* from 13.00-04.00.

COCD — LA VOZ DEL AIRE
Address: La Voz del Aire, Hotel Palace, Vedado, P. O. Box 2294, Havana.
Daily programmes in *Spanish* from 12.00-05.00.
Message to Listeners: Reports are verified by QSL-card.

COCW — ONDAS DEPORTIVAS
Address: Ondas Deportivas, San Miguel 314, Havana.
Daily Programmes in *Spanish* from 11.00-05.00.

COBZ — RADIO SALAS
Address: Radio Salas, San Rafael 108, Apartado 866, Havana.
Daily Programmes in *Spanish* from 11.00-05.00.
Message to Listeners: Reports are verified by QSL-card.

COBC — RADIO PROGRESSO
Address: Radio Progresso, San José 104, Havana.
Daily programmes in *Spanish* from 12.00-05.00.
Message to Listeners: Reports are verified by letter.

COBL — RADIO CADENA SUARITOS
Address: Radio Cadena Suaritos, 25 num. 1113, Havana.
Daily Programmes in *Spanish* from 12.15-05.45.

COCX — RADIO MIL DIEZ
Address: Radio Mil Diez, Reina 314, Havana.
Daily Programmes in *Spanish* from 12.30-05.30.

COBQ — LA VOZ DE CUBA
Address: La Voz de Cuba, Compania Radiodifusora de Publicidad, Vista Alegre 269, Havana.
Daily Programmes in *Spanish* from 13.00-17.00 and 22.30-04.30.

COJK — LA VOZ DE EL CAMAGUEYANO CAMAGUEY
Address: Camaguey, Finlay 4, Havana.

COKG — CADENA ORIENTAL DE RADIO
Address: Apartado 82, Santiago de Cuba.
Daily Programmes in *Spanish* from 11.00-05.00.
Message to Listeners: Reports are verified by letter.

CURACAO

Normal Clock Time — G. M. T. minus 4½ hours.

Address: "Curom", Juliana Zender, Curacaosche Radio Vereeniging, P. O. Box 31, Willemstad, Curacao.

Leading Personalities: President: Mr. F. Visser. Manager: Mr. W. P. G. Stokla.

Stations: Willemstad PJC2 7250 kc/s 41.38 m 3 kW

Daily Programmes in *Dutch:*
Weekdays from 16.30-17.30 and 23.00-02.30.
Sundays from 13.30-17.30 and 23.00-02.30

Announcement: »Hier is de "Curom", de Juliana Zender te Willemstad op Curacao Nederlandsch West Indie".

Message to Listeners: Reports are verified by QSL-card.

REP. DOMINICANA

Normal Clock Time — G. M. T. minus 5 hours.

Stations:

HIT	5010 kc/s	59.88 m	0,1 kW
HI-1A	4980 kc/s	60.24 m	0,75 kW
HI-8Z	5030 kc/s	50.30 m	0,2 kW
HI-2A	5055 kc/s	59.35 m	0,25 kW
HI-4T	5970 kc/s	50.26 m	7,5 kW
HI-9B	6000 kc/s	50.00 m	0,2 kW
HI-1J	6025 kc/s	49.79 m	0,1 kW
HI-1N	6050 kc/s	49.59 m	0,7 kW
HI-1X	6078 kc/s	49.33 m	1 kW
HI-3X	6080 kc/s	49.34 m	0,1 kW
HI-1Z	6105 kc/s	49.14 m	0,2 kW
HI-1R	6140 kc/s	48.86 m	0,2 kW
HI-1G	6147 kc/s	48.80 m	0,1 kW
HI-9T	6190 kc/s	48.47 m	0,1 kW
HI-1A	6196 kc/s	48.42 m	0,075 kW
HIL	6187 kc/s	48.48 m	0,060 kW
HI-9B	6383 kc/s	47.00 m	0,2 kW
HI-1R	6432 kc/s	46.65 m	0,2 kW
HI-3C	6730 kc/s	44.60 m	0,03 kW
HI-2A	6785 kc/s	44.21 m	0,25 kW
HI-8Z	7165 kc/s	41.88 m	0,2 kW
HI-9U	7205 kc/s	41.64 m	0,1 kW
HI-2T	7275 kc/s	41.24 m	7,5 kW
HI-2G	9225 kc/s	32.54 m	0,1 kW
HI-2L	9525 kc/s	31.50 m	0,5 kW
HI-2T	9727 kc/s	30.84 m	7,5 kW
HI-2T	11900 kc/s	25.21 m	7,5 kW

HI2T/HI4T — LA VOZ DEL YUNA, CIUDAD TRUJILLO
Leading Personalitities: Founder-President and Treasurer: M. Jarismendi Trujillo Molina.
Daily Programmes in *Spanish* from 14.00-05.00.
Message to Listeners: Reports are verified by QSL-card.

HI1Z — BROADCASTING NATIONAL "LA VOZ DE LOS MUCHAHOS"
Address: Broadcasting Nacional Apartado 1092, Ciudad Trujillo.
Daily Programmes in *Spanish* from 21.00-04.00. Saturday to 05.00

Announcement: "Broadcasting Nacional HIZ y HI1Z en Ciudad Trujillo capital de la Republica Dominicana una nacions unidas."

HI1X — RADIODIFUSORA OFFICIAL "LA VOZ DE LA REP. DOMINICANA"
Address: Radiodifusora Official, Direccion General de Communicaciones, Ciudad Trujillo.
Daily Programmes in *Spanish* 17.00-19.00, 23.30-02.30.

HI1N — LA VOZ DEL PARTIDO DOMINICANA
Address: La Voz del Partido Dominicana, Ciudad Trujillo.
Daily Programmes in *Spanish* from 21.00-03.00.

HI1R — LA VOZ DE FUNDACION, SAN CHRISTOBAL
Address: Calle Constitution, S. Christobal.
Daily Programmes in *Spanish* from 16.30-21.00.

HI9T-, HI9U — BROADCASTING TROPICAL, PUERTO PLATA
Daily Programmes in *Spanish* from 21.40-01.00.

HI1A — LA VOZ DEL YAQUE, SANTIAGO
Address: Apartado 423, Santiago de los Cabelleros.
Daily Programmes in *Spanish* from 13.00-16.00, 21.00-01.00.

HIL — JOAQUIN C. PELLICER, CIUDAD TRUJILLO
Address: Apartado 623, C. Trujillo.
Daily Programmes in *Spanish* from 21.00-02.00.

HI9B — BROADCASTING HOTEL MERCEDES, CIUDAD TRUJILLO
Daily Programmes in *Spanish* from 22.00-01.30.

HIT — EL HIT DEL AIRE
Address: Apartado 1105, C. Trujillo.
Daily Programmes in *Spanish* from 13.00-15.00, 17.10-18.40 and 21.40-01.40.

HI1Z LA VOZ DE LA PROFECIA
Address: Apartado 568 Ciudad Trujillo.
Daily Programmes in *Spanish* from 00.15-00.45.

HI3C — RADIO DIFUSORA ROMANA
Address: Antonio Herrero, Bella Vista 49, La Romana.

HI2L — LA VOZ DEL TROPICO CIUDAD TRUJILLO
HI2A — LA VOZ DE LA REELACCION, EL CAFE DEL YAQUE, SANTIAGO

GUADELOUPE (French West Indies)

Normal Clock Time — G. M. T. minus 4 hours.

Address: Chef Service Information, Directeur de la Radio, Palais d'Orleans, Basse-Terre, Guadeloupe.

Leading Personalities: Mr. L. Barrat.

Stations: Radio Guadeloupe.

FG8HA	7447 kc/s	40.29 m	0.14 kW

Daily Programmes in *French* from 16.30-17.30 and 23.00-00.30. News at 17.00 and 23.45. Music at 16.45, 23.00 and 24.00.

Announcement: "Ici Radio Guadeloupe Poste Nationale Français".

GUATEMALA

Normal Clock Time — G. M. T. minus 6 hours.

Stations:

TGOA	4169 kcs/	71.90 m	1 kW
TGJA	6230 kc/s	48.16 m	1 kW
TGLA	6295 kc/s	47.66 m	0,2 kW
TGTA	6335 kc/s	47.35 m	1 kW
TGQA	6401 kc/s	46.85 m	0,3 kW
TGWB	6440 kc/s	46.58 m	1 kW
TGOA	6497 kc/s	46.19 m	0,2 kW
TG2	6620 kc/s	45.32 m	0,3 kW
TGWA	9760 kc/s	30.74 m	10 kW
TGWA	15170 kc/s	19.78 m	10 kW

TGWA and TGWB — RADIO NACIONAL
Address: Radio Nacional, La Voz de Guatemala, Ciudad de Guatemala.

Leading Personalities: Director: Mr. Miguel A. Sanoval. Secretary: Mr. Lionel Forno H. Director of Programmes: Mr. José Flamenco y Cotero. Chief of Productions: Mr. Salvador Falla Cofino. Chief Engineer: Mr. Benjamin Herrarte Lopez.

Daily Programmes from **TGWA** (Commercial programmes) in *Spanish on 19.78 m from 12.30-20.00 and on 30.74 m from 23.00-05.00.*
News at 13.00, 13.55, 15.45, 19.00, 04.00.

Daily Programmes from **TGWB** (Cultural programmes) in *Spanish* from 12.30-20.00 and 22.00-04.30.
Programmes consists of light and classical music, play and opera.

Highlights of Programmes:
Symphony Concert: Thursdays from 03.00-03.30 (TGWA)
Opera: Monday from 02.15-04.00 (TGWB)
Theatre: Friday from 03.00-03.30 (TGWA)

Announcement:
TGWA: "Estacion Comercial de "La Voz de Guatemala" en Centro America."
TGWB: "Estacion Culturau de "La Voz de Guatemala" en Centro America."
Gives call every 15 minutes with frequent mention of Guatemala.

Message to Listeners: Reports are verified by QSL-card.

TGLA — LA VOZ DEL PACIFICO, RETALHULEN.
Daily Programmes from 22.30-23.30 and 00.30-04.00

TGOA — LA VOZ DE LAS AMERICA, GUATEMALA CITY.
Daily Programmes from 00.00-03.00

TGQA — LA VOZ DE QUEZALTEMANGO, GUATEMALA CITY.
Daily Programmes from 01.00-04.30

TG2 — RADIO MORSE, GUATEMALA CITY.
Daily Programmes from 23.00-04.00

HAITI

Normal Clock Time — G. M. T. minus 5 hours.

Stations:

HHCA	4665 kc/s	64.52 m	0,2 kW
HHCN	5660 kc/s	53.00 m	0,2 kW
HH2S	5948 kc/s	50.44 m	0,5 kW
HHYM	6000 kc/s	50.00 m	1 kW
HHCM	6165 kc/s	48.66 m	1 kW
HHBM	9660 kc/s	31.06 m	1 kW
HH3W	10130 kc/s	29.60 m	0,5 kW

HHBM-HHCM-MACLOIRE BROADCASTING CIRCUIT, M. B. C.
Address: Rue Eugen. Baenjolly. Port-au-Prince.

Leading Personalities: Mr. Camille Thomas and Mr. Morissean-Leroy.

Daily Programmes in *French* from 11.00-13.30 on 9.660 kc/s and 23.00-03.00 on 6.165 kc/s; Weekdays also 15.00-19.30.

Announcement: Every half hour: "Vous ecoutéz la MBC, a Port-au-Prince, Capitale de la Republique d'Haiti. La MBC travaille en ce moment avec la HHBM, 31 m, la HHCM 48 m et la HHGM 208.66 m. La MBC est affilié a la NBC de New York"

Interval-Signal: Every half hour: Five chimes.

Message to Listeners: Reports are verified by letter. Return postage not necessary.

HH3W — BROADCASTING CIRCUIT HHW
Address: Rue Boun fer, Box A 117, Port-au-Prince.
Daily Programmes in *French* from 11.30-13.30, 17.00-20.00 and 23.00-03.00 (Sundays 15.00-20.00).

HH2S — SOCIETE HAITIENNE DE RADIODIFUSSION
Address: Rue du Center Port au Prince.

Daily Programmes in *French* from 11.30-13.30, 17.00-19.00 and 22.30-03.40 (Sundays 01 00).

HHCA HAITIENNE BROADCASTING CO, PORT AU PRINCE.

HHCN — RADIO STATION HHCN
Address: Radio Station HHCN, Are 4, Port-au-Prince.

Daily Programmes in *French: Weekdays:* 14.30-16.30 and 22.30-02.30. *Sundays:* 14.00-16.00.
News at 15.30 and 02.00.
Announcement in French, English and Creole.

HHYM — RADIO PHILIPS PORT-AU-PRINCE
Daily Programmes in *French* from 17.00-19.00 and 23.30-02.00.

REP. HONDURAS

Normal Clock Time — G. M. T. minus 6 hours.

La Voz de Honduras, Tegucigalpa.
Station: HRN 5877 kc/s 51.06 m 0,5 kW
Daily Programmes in *Spanish* from 23.00-04.00.

La Voz de Lempira, Tegucigalpa.
Station: HRA 5940 kc/s 50.51 m 2 kW
9045 kc/s 33.16 m 0.75 kW
Daily Programmes in *Spanish* from 23.00-04.00.

La Voz de Atlantida, La Ceiba.
Address: Avenida 14 de Julio, La Ceiba.
Station: HRD2 6235 kc/s 48.12 m 0,2 kW
Daily Programmes in *Spanish* from 18.00-20.00 and 01.00-05.00.

La Voz de Suyapa, San Pedro Sula.
HRQ 6125 kc/s 48.98 m 0,5 kW

El Eco de Honduras, San Pedro Sula.
HRP1 6351 kc/s 47.24 m 0,5 kW

BRITISH HONDURAS

Normal Clock Time — G. M. T. minus 6 hours.

Address: Gouvernment Radio Station c/o Colonial Postmaster, Belize, British Honduras.

Stations: ZIK2 10600 kc/s 28.30 m 0,2 kW.

Daily Programmes in *English* from 15.00-17.45.

JAMAICA (British West Indies)

Normal Clock Time — G. M. T. minus 5 hours.

Address: The Government Broadcasting Station, 2 Seaview Avenue, Half Way Tree, Kingston.

Leading Personalities: Station Manager: Denis MGICK

Stations: Kingston ZQI
4950 kc/s 60.60 m 1.2 kW
3480 kc/s 86.21 m 1.2 kW

Daily Programmes in *English* from 21.00-22.30 on 60 m and 00.30-03.00 on 86 m.

Announcement: Identification in English is given at 15 minutes interval. All transmissions are opened with the chorus from Elgar's "Land of Hope and Glory".

Message to Listeners: Reports of reception are welcomed, and, if verified, are acknowledged with QSL cards.

MARTINIQUE (French West Indies)

Normal Clock Time — G. M. T. minus 4 hours.

Address: La Directeur du Service d'Information, Fort-de-France.

Leading Personalities: Director: Mr. R. Hennebault.

Stations: Radio Martinique.
FNRI 9700 kc/s 30.93 m 1,5 kW

Daily Programmes from 10.30-11.30 (Sunday 10.30-12.00), 16.15-18.00, 22.30-01.30 (Saturday 22.30-02.00, Sunday 22.00-01.30).

Highlights of Programme:
French West Indian Folklore: 00.15 Fridays.
Martinique Press Review: 23.00 Tuesdays.

Announcement: "Ici Radio Martinique poste National Français" or "Ici Radio Martinique — La Voix de la France aux Antilles". This text is repeated every 15 minutes.

Interval-Signal: The first six notes of "Sous les Ponts de Paris" played on Xylophone. Open with "La Marseillaise" and "March Lorraine".

Message to Listeners: Reports are verifered by QSL-card. Return postage to be enclosed."

MEXICO

Normal Clock Time (Central Standard Time) — G. M. T. minus 6 hours.

STATIONS:

Cultural Stations:

XEJG	4820 kc/s	62.24 m	0,2 kW
XEEP	6155 kc/s	48.74 m	1 kK
XEXA	6175 kc/s	48.58 m	0.1 kW
XEYU	9600 kc/s	31.25 m	0,25 kW

Commercial Stations:

XEOI	6010 kc/s	49.92 m	2,5 kW
XEUW	6020 kc/s	49.83 m	0,25 kW
XEKW	6030 kc/s	49.75 m	0,5 kW
XETW	6045 kc/s	49.63 m	0,1 kW
XEUZ	6130 kc/s	48.94 m	0.1 kW
XECD	6185 kc/s	48.50 m	0,05 kW
XEWW	9500 kc/s	31.58 m	25 kW
XEFT	9545 kc/s	31.43 m	0,25 kW
XETT	9555 kc/s	31.40 m	0,5 kW
XERQ	9610 kc/s	31.22 m	0,5 kW
XEBT	9625 kc/s	31.17 m	10 kW
XEQQ	9680 kc/s	30.99 m	1 kW
XEBR	11820 kc/s	25.38 m	0,15 kW
XEHH	11880 kc/s	25.25 m	0,25 kW

XEJG — GOBIERNO DEL ESTADO DE JALISCO
Address: Palicio de Gobierno, Guadalajara.
Daily Programmes in *Spanish* from 03.50-05.00.

XEPP — SRIA DE EDUCACION PUBLICA. MEXICO CITY

XEXA — RADIO GOBERNACION, MEXICO D. F.
Address: Calle de Bucareli, Mexico City.
Daily Programmes in *Spanish* from 01.00-06.00 and 13.00-20.00.

XEYU — UNIVERSIDAD NACIONAL DE MEXICO
Address: Calle de Justo Sierra, Mexico D. F.

XEWW — LA VOZ DE LA AMERICA LATINA DESDE MEXICO
Address: Cadena Radiodifusora Mexicana S. A., Calle Ayuntamiento Nr. 54, Mexico D. F.

Leading Personalities: Chairman: Mr. Emilio Azcarraga. General Manager: Mr. Othón M. Velez. Chief Engineer: Mr. Jose R. del Herran.

Daily Programmes in *Spanish:*
On 31.58 m from 12.55-06.00
On 19.79 m: Used only occasionally for special transmissions.
News at 14.00, 20.35, 01.00, 04.45 and 06.00.

Announcement: Call given every quarter hour "XEW y XEWW Ciudad de Mexico" preceeded by four descending chimes.

Message to Listeners: Reports are verified by QSL-card.

XEBT — LAS EMISORAS DE AMERICA
Address: Estaciones Radiodifusoras Comerciales XEB and XEBT, Calle Buen Tono Nr. 6, Mexico D. F.

Leading Personalities: General Manager: Engineer Andre T. Duprat. Chief Engineer: Engineer Juan C. Buchanan. Artistic Director: Sr. Julian Moran.

Daily Programmes in *Spanish* from 14.20-06.00
News at 15.30, 21.00, 01.30 and 06.15 in *Spanish*
News in *English* from 03.30-03.45
Music: 23.00-24.00 and *Cabaret* 04.30-06.15

Announcement: In *Spanish:* "Las Emisoras de America desde la Capital de la Republica Mexicane" or "Estas son XEB y XEBT Las Emisoras de America". In *English:* "You have listened to XEB mediumwave and XEBT shortwave".

Interval-Signal: Melody: "Liszt's Liebestraum". Every quarter of the hour one cuckoo signal; three cuckoo signals after each programme and every half hour.

Message to Listeners: Reports answered by QSL-card.

XEOI — RADIO MIL
Address: Radio Mil, Fomento de Radio S. A., Donato Guerra No. 26, Mexico City.
Daily Programmes in *Spanish* from 14.00-06.00.

XEQQ — RADIO PANAMERICANA
Address: Radio Panamericana XEQQ, José Maria Marroqui No. 11, Mexico D. F.
Message to Listeners: Reports are answered by QSL cards.

XEFT — LA VOZ DE VERA CRUZ
Address: Independencia No. 74, Vera Cruz.
Daily Programmes in *Spanish* from 15.00-05.25.
Message to Listeners: Reports are answered by QSL cards.

XEHH — SAL DE UVAS PICOT
Address: Zempola No. 77, Mexico D. F.

XEKW — EL ECO DE MICHOACAN
Address: Aldama No. 154, Morelia.
Daily Programmes in *Spanish* from 12.00-17.00, 21.00-04.00.

XERQ — RADIO CONTINENTAL, CORPORATION MEXICANA DE RADIO S. S.
Address: Cordoba No. 48, Mexico D. F.
Daily Programmes in *Spanish* from 04.00-07.00.

XETT — LA HORA EXACTA
Address: Lopez No. 8, Mexico D. F.
Daily Programmes in *Spanish* from 12.00-06.00.

XETW — LA VOZ DE TAMPICO
Address: Madero No. 10, Tampico.
Daily Programmes in *Spanish* from 13.00-04.00 (Sun. 05.00).
Message to Listeners: Reports are verified by letter.

XEUQ — EL ECO DE SOTAVENTO DESDE VERA CRUZ
Address: Independencia No. 230, Vera Cruz.
Daily Programmes in *Spanish* from 12.00-06.00.

XEUZ — CADENA RADIO NACIONAL "PRI"
Address: Paseo de la Reforma No. 18, Mexico D. F.
Daily Programmes in *Spanish* from 20.00-05.20.

REP. NICARAGUA

Normal Clock Time — G. M. T. minus 6 hours.

Stations:

YNJAT	5758 kc/s	52.10 m	0,6 kW
YNMM	6017 kc/s	49.86 m	0,3 kW
YNAS	6300 kc/s	47.62 m	0,1 kW
YNZZ	6450 kc/s	46.51 m	0,4 kW
YNWW	6450 kc/s	46.51 m	0,4 kW
YNBH	6550 kc/s	45.80 m	0,4 kW
YNCMO	6710 kc/s	44.71 m	0,1 kW
YNVP	6760 kc/s	44.38 m	0,2 kW
YNOW	6850 kc/s	43.81 m	0,6 kW
YNEQ	6950 kc/s	43.16 m	0,2 kW
YNAO	7360 kc/s	40.76 m	0,2 kW
YNXA	7400 kc/s	40.54 m	0,1 kW
YNTZ	7460 kc/s	40.21 m	0,1 kW
YNFT	7500 kc/s	40.00 m	0,2 kW
YNLAT	7625 kc/s	39.34 m	0,4 kW
YNDG	7660 kc/s	39.17 m	0,3 kW
YNMG	8007 kc/s	37.46 m	0,1 kW
YNXW	8250 kc/s	36.36 m	0,1 kW
HTX1	8400 kc/s	35.71 m	0,25 kW
YNCHA	8440 kc/s	33.97 m	0,1 kW

YNVP — LA VOZ DE NICARAGUA
Address: Radiodifusora YNVP "La Voz de Nicaragua", Managua, D. N.

Leading Personalities: Director-General: Dr. Velazquez Prieto. Engineers: Mr. Moises C. Lefranc and Mr. Guillermo Borge C.

Daily Programmes in *Spanish:* 12.00-15.00, 17.00-20.00 and 22.00-04.00.
Light Music: Daily at 22.00.
Variety: Daily at 01.00.
Classical Music: Sunday at 13.00.

Announcement: "Esta es "La Voz de Nicaragua" emisora afiliada a la Cadena Panamerican de la NBC, en Managua".

Interval-Signal: Every quarter of an hour the notes G-C-E-G.

Message to Listeners: From this little country "La Voz de Nicaragua" speaks to all people on the earth to create a better understanding between people." Reports are verified by letter."

YNWW — RADIO SPORT, GRANADA
Daily Programmes in *Spanish* from 13.00-15.00, 18.00-21.00 and 23.00-04.00.

YNBH — RADIO PANAMERICANA, MANAGUA

Leading Personalities: Director General: Mr. Luis Felipe Hidalgo. Programme Directors: Mr. Sidar Cisheros and Raul Fonseca Saballes.

Daily Programmes in *Spanish* from 13.00-04.00.

Announcement: Aqui YNBH, Radio Panamericana en Managua, Nicaragua, Centro America.

Interval-Signal: Three strokes on Xylophone.

Message to Listeners: Reports are verified by letter.

YNOW
LA VOZ DE LA AMERICA CENTRAL, MANAGUA
Address: 2 a Calle Noreste No. 607.
Daily Programmes in *Spanish* from 13.00-16.00, 17.00-20.00 and 21.00-05.00.

YNJAT — LA VOZ DEL AIRE, LEON
YNMM — RADIO CONTINENTAL, MANAGUA
YNZZ — RADIO MUNDIAL, MANAGUA
YNAO — ECOS DEL AIRE, MASAYA
YNDG — RADIO COLONIAL,, LEON
YNXW — RADIO AMERICA, MANAGUA
YNCHA — LA VOZ DE CARAZO, DIRIAMBA
HTX1 — RADIO MANAGUA, MANAGUA

YNFT — LA VOZ DE LA SULTANA, GRANADA
Daily Programmes in *Spanish* from 22.00-02.00

YNLAT — LA VOZ DEL MOMBACHO, GRANADA
Daily Programmes in *Spanish* from 22.00-03.15.

YNEQ — LA VOZ DE LA VICTORIA
Address: Apartado No. 338.
Daily Programmes in *Spanish* from18.00-04.00.

YNTZ — EMISORA DEL PUEBLO RADIO MASSAYA, MASSAYA
Daily Programmes in *Spanish* from 22.00-03.00.

REP. PANAMA

Normal Clock Time — G. M. T. minus 5 hours.

Stations:

HP5K	6005 kc/s	49.96 m	0,8 kW
HP5B	6030 kc/s	49.75 m	0,8 kW
HP5F	6050 kc/s	49.59 m	0,3 kW
HOLC	6060 kc/s	49.50 m	0,5 kW
HP5H	6122 kc/s	49.00 m	0,5 kW
HOLA	9505 kc/s	31.56 m	1 kW
HP5J	9607 kc/s	31.23 m	1 kW
HP5A	11700 kc/s	25.64 m	2 kW

HP5J — LA VOZ DE PANAMA

Address: La Voz de Panama, Servicio Publico de Radio, Box 34, Panama City.

Leading Personalities: Owner and General Manager: Mr. Manuel Diaz. *Spanish Programmes:* Mr. George Acerra. *English Programmes:* Mr. George Williams and Mr. Jack Allyn

Daily Programmes in *English* and *Spanish* from 11.00-04.00.
News Program Preview: 17.30-18.00 and 23.00-23.30.

Announcement: In *English:* Your pioneer station "The Voice of Panama" HP5J and HP6J, 31 and 220 metres simultaneously transmitting from the City of Panama. Rep of Panama.

Message to Listeners: "We have a vast short wave listener audience. We welcome all reports from DX-Fans, which will all be verified by QSL card."

HP5K — LA VOZ DE LA VICTOR
Address: Apartado 33, Colon.
Daily Programmes, in *English* and *Spanish* from 12.30-20.00 and 21.00-04.00.

Announcement: In *English:* "These are stations HOK, HP5K and HON of the Panama Broadcasting System, operating in the City of Colon, Republic of Panama."

Message to Listeners: Reports are answered by QSL card.

HP-5H LA VOZ DEL PUEBLO
Address: Apartado 1045, Panama City.
Daily Programmes in *English* and *Spanish* from 12.00-04.00.

HOLA — RADIO ATLANTICO
Address: Apartado 444, Colon.
Daily Programmes in *English* and *Spanish* from 12.00-04.15.
Message to Listeners: Reports are answered by QSL card.

HP-5A CADENA PANAMENA DE RADIODIFUSION, PANAMA CITY
Address: Apartado 954, Panama City.
Daily Programmes in *English* and *Spanish* from 12.00-04.00.

HP-5B — RADIO MIRAMAR
Address: Apartado 910, Panama City.
Daily Programmes in *English* and *Spanish* from 12.00-03.30.
Message to Listeners: Reports are answered by QSL cards.

HOLC — RADIO BALBOA, PANAMA

REP. EL SALVADOR

Normal Clock Time — G. M. T. minus 6 hours.

Stations:

HUB	4780 kc/s	62.76 m	0,3 kW
YSCP	5187 kc/s	57.83 m	1 kW
YSW	6000 kc/s	50.00 m	1 kW
YSHQ	6175 kc/s	48.58 m	1 kW
YSPB	6150 kc/s	48.78 m	0,35 kW
YSUA	6250 kc/s	48.00 m	1 kW
YSR	6265 kc/s	47.88 m	1 kW
YSI	7215 kc/s	41.58 m	0,1 kW
YSO	7270 kc/s	41.27 m	1 kW
YSF	9250 kc/s	32.43 m	1 kW
YSLL-A	9540 kc/s	31.44 m	1 kW

HUB — DIFUSORAS NACIONALES — ALMA

CUSCATLECA
Address: Difusoras Nacionales YSS, Alma Cuscatleca y HUB de la Direccion General de Comunicaciones Electricas, San Salvador.
Leading Personalities: Manager: Mr. Francisco José Alvarado. Chief Engineer: Mr. José Enrique Nunez.
Daily Programmes (Cultural programmes) in *Spanish* from 18.00-19.00 and 00.00-04.00.

YSWW — La RADIO DEL PUEBLO
Address: La Radio Del Pueblo Santaneco, Ciudad de Santa Ana.
Daily Programmes in *Spanish* from 13.00-14.00, 18.00-20.00 and 00.30-04.00.
Message to Listeners: Reports are answered by QSL cards.

YSUA — RADIO MIL CINCUENTA
Address: La Avenida Sur No. 50, S. Salvador.

Daily Programmes in *Spanish* from 18.00-21.00 and 01.00-05.00.
Message to Listeners: Reports are answered by QSL letter.

YSR — LA VOZ DE EL SALVADOR
Address: La Voz de El Salvador, San Salvador.
Daily Programmes in *Spanish* from 17.00-05.00.

YSO — LA VOZ DE LA DEMOCRACIA
Address: La Voz de la Democracia, Apartado 4-8-4, San Salvador.
Leading Personalities: Director General and Director of Programmes: Edmundo Nusen. Chief-Engineer Joaquin Guzman.
Daily Programmes in *Spanish* from 17.00-04.00.
Announcements: Every half hour: "Esta es YSO La Voz de la Democracia en Salvador, Rep. de El Salvador, en el Corazow de America".
Message to Listeners: Reports answered by QSL-cards.

YSF — RADIO VANGUARDIA
Address: Radio Vanguardia, San Salvador.
Daily Programmes in *Spanish* from 13.00-15.00, 18.00-20.00 and 00.00-04.00.

YSHQ — LA VOZ DE PROGRESO, SAN MIGUEL
Daily Programmes in *Spanish* from 16.00-04.00.

YSP — LA VOZ DE CUSCATLAN, SAN SALVADOR
Address: Calle Ruben Dario 46.
Daily Programmes in *Spanish* from 12.30-05.00.

YSLL-A — RADIO CORPORACION GONZALES
Address: 11 Av. sur 21 S. Salvador.

YSCP — EMISORA DE LA PRESIDENCIA, S. SALVADOR

TRINIDAD

Normal Clock Time — G. M. T. minus 4 hours.

Address: Trinidad Broadcasting Co., Ltd., Broadcasting House, Port of Spain, Trinidad.

Leading Personalities: General Manager: W. A. MacLurg. Chief Engineer: A. Cross. Studio Manager: Gerard de Freitas. Announcer: S. Ghany.

Stations:

VP4RD	9625 kc/s	31.17 m	0,5 kW

Daily Programmes on *Weekdays* from 10.00-13.00, 15.30-18.00 and 20.00-03.00. *Sunday:* 10.00-18.00 and 20.00-03.00.
News from BBC at 11.00, 16.12, 20.00 and 01.00.
Programme Preview at 20.10.
Church in the Wildwood at 10.00.

Announcement: "This is Radio Trinidad".

Interval-Signal: Harp Music.

Message to Listeners: Reports are checked against Station Logs and QSL cards issued on receipt of I. R. C.

SOUTH AMERICA

ARGENTINA

Normal Clock Time — G. M. T. minus 3 hours.

Stations:

LRM	5900 kc/s	50.85 m	10 kW
LRS1	6065 kc/s	49.46 m	5 kW
LSX	6090 kc/s	49.26 m	0,3 kW
LRX-1	6120 kc/s	49.02 m	10 kW
LRT	6145 kc/s	48.82 m	10 kW
LRM	6180 kc/s	48.54 m	10 kW
LRS	9315 kc/s	32.21 m	10 kW
LRY	9545 kc/s	31.44 m	5 kW
LRX	9660 kc/s	31.06 m	7 kW
LRA-1	9690 kc/s	30.96 m	10 kW*)
LRT	11880 kc/s	25.25 m	10 kW
LRU	15290 kc/s	19.62 m	5 kW
LRA5	17720 kc/s	16.93 m	10 kW

*) To be increased to 100 kW

LRA1 — RADIO DEL ESTADO

Address: LRA Radio del Estado, Palacio de Correos y Telecommunicaciones, Buenos Aires.

Leading Personalities: General Manager for Telecommunication: Don Oscar M. L. Nicolini. Joint General Manager: Don Pedro Gagliardo. Director for Broadcasting: Don Humberto A. Rusi.

Daily Programmes: LRA1 from 13.00-03.00. LRA5 from 21.00-21.30.

14.45 Political Bulletin (exc. Sun.)	22.00 Music
13.30 News	23.30 News
15.00 Records	00.00 Records
1630 News (exc. Sun.)	01.00 News (exc. Sun.)
17.00 Music	01.30-03.00 Classical Music

Highlights of Programmes:
Symphony Concert: Sunday at 15.30 and 23.00
Wednesday and Friday at 00.00
Opera: Wednesday at 01.30

Announcement: "LRA y LRA1 Radio del Estado de Buenos Aires."

Interval-Signal: "Marcha patriotica" is played at opening and closing down.

Message to Listeners: Reports are answered by QSL cards.

RADIO EL MUNDO

Address: Radio El Mundo, 555 Calle Maipu, Buenos Aires.

Leading Personalities: President for Editorial Haynes Lda. (Owner): Sr. Harry Wesley Smith. Director for Radio El Mundo: Sr. Oscar Luis Massa. Administrator of Radio El Mundo: Sr. Juan A. Fernandez.

Stations:

LRX 1	6120 kc/s	49.02 m	10 kW
LRX	9660 kc/s	31.06 m	7 kW
LRU	15290 kc/s	19.62 m	5 kW

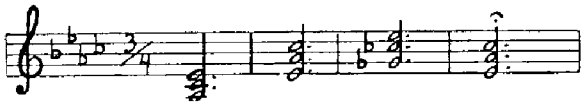
Daily Programmes in *Spanish* from 10.30-04.00. On 19.62 m only from 10.30-14.30.

10.30 News	17.15 Music
11.00 Records	19.00 Sketch
13.00 News	19.35 Drama
13.05 Records	20.30 Drama
13.30 News	21.00 News
14.30 Music	22.00 Tango
15.00 News	23.30 Official News
15.05 Music	01.00 News
15.45 Sketch	02.00 News
16.00 News	02.15 Records
16.30 Official News	03.00 News, Records

Highlights of Programmes:
Symphony Concert: 00.45 Sundays and Fridays.

Announcement: "LR 1 Radio El Mundo de Buenos Aires con sus estaciones LRX y LRX 1".

Interval-Signal:



Message to Listeners: "We do not broadcast special programmes for foreign listeners, but we receive many letters and reports from listeners all over the world, which we always verify. We are always grateful for reports of our programmes and reception quality. Reports are answered by QSL cards".

LRY, LRY1 — RADIO BELGRANO

Address: Radio Belgrano, 1841, Buenos Aires.

Leading Personalities: President: Mr. Jaine Yankelevich. General Manager: Mr. Juan E. Cossic. Director: Mr. Pablo O. Valle. Director of Programmes: Mr. Samuel Yankelevich.

Daily Programmes in *Spanish* from 04.00 (Sat. 05.00).
News: 10.00, 12.00, 12.30, 13.00, 13.55, 15.00, 15.30, 19.55, 22.00, 02.00, 02.30, 03.45.

Announcement: "LR3, Radio Belgrano y sus estaciones de onda corta LRY y LRY1 con ZP5 de Encarnacion Paraguay y la Primera Cadena Argentina de Broadcasting."

Interval-Signal: Tunes on Vibraphone and Gong.

LRS, LRS1 — RADIO SPLENDID

Address: Radio Splendid, Calle Ayacucho 1556, Buenos Aires.

Leading-Personalities: President: Engineer Antonio C. Devoto. Vice-President and General Manager: Dr. Alfredo G. Pérez.

Daily Programmes in *Spanish* from 13.00-14.00, 15.20-15.25, 17.00-20.30, 22.45-01.30 (Sun. 02.00).
News at every hour. — *Theatre* daily 17.00 and 22.05. — *Answer to letters from listeners:* 21.30-22.00 Mondays and Thursdays.
Football-Reportage: C. 15.00 Sundays.

Announcement: LR4 Radio Splendid de Buenos Aires, con LRS y LRS1 ondas cortas y la Red Argentina de Emisoras Splendid.

Interval-Signal: Gong.

Message to Listeners: "Listen to the French programme "La Madelon"" Weekdays from 14.00-14.15. Reports answered by QSL letter.

LRM — RADIO ACONCAGUA

Address: Radio Aconcagua, Avenida Civit 640, Mendoza.

Leading Personalities: Manager: Julio E. Pozo.

Daily Programmes in *Spanish* from 10.00-04.00.
News daily at 10.30, 12.55, 15.00, 16.00, 16.35, 20.55, 01.00, 01.35 and 02.45.
Music at 01.40-02.10.
"Radio Theatre" 21.00 and 01.05.
Relay Radio El Mundo from 23.00-01.00.

Announcement: "LRM y LW2 Radio Aconcagua de Mendoza."

Message to Listeners: Reports are verified by letter.

LRT — RADIO DE TUCUMAN, TUCUMAN

Daily Programmes in *Spanish* from 12.00-17.00, 21.00-02.00.

LSX — RADIO DE CORDOBA, CORDOBA

Daily Programmes in *Spanish* from 10.00-04.00 (Sat. 05.00).

BRAZIL

Normal Clock Time — G. M. T. minus 3 hours.

Stations:

PRI4	4825 kc/s	62.18 m	0,5 kW	
PRC5	4865 kc/s	61.66 m	2 kW	
PRF5	4895 kc/s	61.28 m	0,25 kW	
PRK5	6000 kc/s	50.00 m	5 kW	
PRA8	6016 kc/s	49.87 m	5 kW*	
ZYK3	6085 kc/s	49.30 m	15 kW	
ZYB7	6095 kc/s	49.22 m	25 kW	
ZYN6	6105 kc/s	49.14 m	0,5 kW	
PST2	7410 kc/s	40.49 m	1 kW	
ZYK3	9565 kc/s	31.36 m	15 kW	
ZYC8	9610 kc/s	31.22 m	25 kW	
PRL7	9720 kc/s	30.86 m	50 kW	
PRL4	9770 kc/s	30.70 m	1 kW	
PRL8	11720 kc/s	25.60 m	50 kW	
ZYB8	11765 kc/s	25.50 m	25 kW	
ZYK3	15145 kc/s	19.82 m	15 kW	
ZYB9	15150 kc/s	19.80 m	25 kW	inactive
ZYN7	15165 kc/s	19.77 m	5 kW	
PRK9	15190 kc/s	19.75 m	12 kW	inactive
ZYC9	15370 kc/s	19.52 m	25 kW	
PRL9	17850 kc/s	16.81 m	50 kW	

* to be increased to 25 kW

PRL7 — PRL8 — PRL9: RADIO NACIONAL

Address: Radio Nacional, Empresa Radio Nacional, Praca Maua No. 7, Ed. da "A Noite", Rio de Janeiro.

Leading Personalities: General Manager Annando C Costa, Administrator Mario M. Neiva. Director of Programmes: Victor Costa P. Geraldine.

Daily Programmes:
From PRL7 (30.86 m): In *Portuguese* from 16.30-03.30. In *Spanish* from 20.45-21.00 (exc. Sat. and Sun.)
From PRL8 (25.60 m) in *Portuguese* from 09.00-16.30.
From PRL9 (16.81 m) occasionally in parallel with PRL7.

Message to Listeners: Reports are not verified.

PRC5 — RADIO CLUBE DE PARA, BELEM, PARA

Leading Personalities: Directors: Carlos Eduardo Camelie. Dr. Edgar de Campos Proenca and Eriberto Pio dos Santos.

Daily Programmes in *Portuguese.*
Weekdays: from 09.00-17.00 and 19.00-01.30.
Sundays: from 09.00-01.30.
Interval Signal: "Poema", composed by Fugick.
Message to Listeners: All reports answered by QSL cards.

PRF5 — RADIO BARE, MANAOS

Daily Programmes in *Portuguese* from 23.30-02.30.

PRK5 — PRK9 — RADIO INCONFIDENCIA, BELO HORIZONTE

Leading Personalities: Director General: Dr. Ney Octaviana Bernis.

Daily Programmes in *Portuguese* from 10.55-19.00 and 21.00-02.00.
News at 12.00, 14.30, 00.00 and 01.30.
Theatre: Sundays at 23.30.

PRA8 — RADIO CLUBE DE PERNAMBUCO, RECIFE

Address: Avenida Cruz Cabuga 394, Recife.

Leading Personalities: President: Antonio Pereira. General Manager: Arnaldo Moreire Pinto. General Secretary: Mario Libanio Alves da Silva.

Daily Programmes in *Portuguese* from 11.00-02.00.

Announcement: Ouvem PRA8 Radio Clube de Pernambuco, Brasil, transmitindo simultaneamente em ondas

medias e curtas nas frequencias de 720 e 6015 kilociclos".
Interval Signal: 3 strokes on electric gong.
Message to Listeners: Reports are verified by QSL-card.

ZYK3 — RADIO JOURNAL DO COMMERCIO, RECIFE
Dail Programmes in *Portuguese* from 11.00-02.00 on
6085 kc/s from 21.00-02.00
9565 kc/s from 11.00-17.00 and 19.00-02.00
15145 kc/s from 11.00-19.00
Message to Listeners: Reports are answered by QSL cards.

ZYB7 — ZYB8 — ZYB9 — RADIODIFUSORA DE SAO PAULO, SAO PAULO
Daily Programmes in *Portuguese:*
On 6095 kc/s from 21.00-02.50.
On 11765 and 15155 kc/s from 13.00-18.00 and 20.30-03.30.

ZYN6 — ZYN7 CEARA RADIO CLUBE, FORTALEZA
Address: Caixa Postal 222, Fortaleza.
Leading Personalities: Director General: Paulo Cavrial.
Daily Programmes in *Portuguese.*
On 6105 kc/s: Weekdays (exc. Sat.) from 14.00-17.00, 20.00-01.30.
Saturdays from 14.00 01.30.
Sunday from 12.00-01.30.
On 15165 kc/s: Daily from 20.00-20.55.
On Mondays and Fridays from 18.00-20.00: International programme.
Message to Listeners: Reports are answered by QSL letter.

ZYC8 — ZYC9 — RADIO TAMOI, RIO DE JANEIRO
Address: Avenida Venezuela 43, Rio de Janeiro.
Leading Personalities: Director General: Dr. Ovidio Gorrera.
Daily Programmes in *Portuguese:*
On 9610 kc/s from 20.00-03.00.
On 15370 kc/s from 10.30-17.00.
Message to Listeners: Reports are answered by QSL cards.

PRL4 — RADIO MINISTERIO DA EDUCACAO, RIO DE JANEIRO
Address: Praca da Republica 141 A, Rio de Janeiro.
Daily Programmes in*Portuguese* from 20.00-02.30.
Opera: Sundays at 20.00-22.30.
Symphony concerts: Tuesdays at 01.00 and Fridays at 20.00.
Listeners requests: Sundays at 22.30.

BOLIVIA

Normal Clock Time — G. M. T. minus 4 hours.
Stations:

CP5	5973 kc/s	50.24 m	0,25 kW
CP41	6020 kc/s	49.83 m	0,25 kW
CP37	6026 kc/s	49.78 m	0,25 kW
CP11	6100 kc/s	49.18 m	0,25 kW
CP2	6110 kc/s	49.10 m	1 kW
CP15	6120 kc/s	49.02 m	0,25 kW
CP22	6130 kc/s	48.94 m	0,25 kW
CP12	6150 kc/s	48.78 m	0,25 kW
CP5	6200 kc/s	48.39 m	0,5 kW
CP40	6510 kc/s	46.08 m	0,25 kW
CP22	6715 kc/s	44.67 m	0,25 kW
CP49	6770 kc/s	44.31 m	0,5 kW
CP21	9430 kc/s	31.81 m	0,25 kW
CP1	9460 kc/s	31.72 m	0,25 kW
CP38	9505 kc/s	31.56 m	5 kW
CP6	9520 kc/s	31.51 m	1 kW
CP35	9590 kc/s	31.28 m	0,5 kW
CP12	9630 kc/s	31.15 m	0,25 kW
CP25	9700 kc/s	30.93 m	0,25 kW
CP7	15130 kc/s	19.83 m	1 kW

CP38/CP2 — RADIO NACIONAL DE BOLIVIA LA PAZ
Address: Casilla 596, Ja Paz.
Leading Personalities: Director: Mr. Enrique Costas E. Administrator: Mrs. Elsa Costas.
Daily Programmes in *Spanish* from 12.00-14.00, 16.00-18.00 and 20.00-04.00.
Thursdays, Saturdays and Sundays special programmes with famous artists.
Message to Listeners: Reports are answered by QSL cards.

CP49 — RADIO MUNICIPAL, LA PAZ
Daily Programmes in *Spanish* from 12.00-14.00, 16.00-17.00 and 22.20-02.00.

CP12 — RADIO FIDES, SUCRE
Daily Programmes in *Spanish* from 16.00-18.00 and 22.00-24.00.

CP37 — RADIO ORURO, ORURO
Daily Programmes in *Spanish* from 01.30-04.00.

CP5 — RADIO BOLIVIANA, LA PAZ
Address: Casilla 637, La Paz.
Daily Programmes in *Spanish* from 22.15-02.45.

CP25 — RADIO SUCRE, LA PAZ
Daily Programmes in *Spanish* from 14.00-03.00.

CP15 — RADIO EL CONDOR, LA PAZ
Address: Casilla 846, La Paz.
Daily Programmes in *Portuguese* from 12.00-14.00, 16.00-18.00, 22.00-03.00.
Message to Listeners: Reports answered by QSL letter.

CHILE

Normal Clock Time — G. M. T. minus 4 hours.
Stations:

CE-482	4820 kc/s	62.24 m	5 kW
CE8AA	5800 kc/s	57.72 m	5 kW
CE-601	6010 kc/s	49.92 m	5 kW
CE-604	6065 kc/s	49.46 m	5 kW
CE-615	6150 kc/s	48.78 m	5 kW
CE 622	6220 kc/s	48.23 m	5 kW
CE-920	9200 kc/s	32.54 m	5 kW
CE-960	9585 kc/s	31.30 m	1,2 kW
CE-970	9728 kc/s	30.84 m	5 kW
CE-1170	11700 kc/s	25.64 m	5 kW
CE-1173	11730 kc/s	25.58 m	5 kW inactive
CE-1174	11740 kc/s	25.55 m	5 kW
CE-1180	11998 kc/s	25.00 m	5 kW
CE-1185	11850 kc/s	25.32 m	5 kW
CE-1190	11900 kc/s	25.21 m	5 kW
CE-1227	12270 kc/s	24.45 m	5 kW

CE-1190, CE-970, CE-615 — LA VOZ DE CHILE
Address: Radios La Cooperative Vitalicia, Compania Chilena de Communicaciones S. A., Calle Condell 1227, Post Box 1627, Valparaiso.

Leading Personalities: General Manager: Mr. Luis Falcone Baltra. General Secretary: Mr. Roberto Barrueto, General Manager for Valparaiso transmitters: Mr. Luis Falcone. Director: Mr. Raul Gorigoitia. Programme Director: Mr. Enrique Saldias.

Daily Programmes in *Spanish:*
All stations: from 11.30-04.00 with the same programme

for both from 11.30-13.00, 17.00-18.00 and 23.00-04.00. *Santiago* and *Valparaiso* programmes severally from 13.00-17.00 and 18.00-23.00.

Announcement: All stations open with Elgar's march: "Land of Hope and Glory".

Interval-Signal: Every half hour automatic gong plays the first 5 notes of Elgar's march followed by announcement.

Message to Listeners: Reports are verified by QSL-card.

CE622-CE1173 — RADIO SOCIEDAD NACIONAL DE MINERIA

Address: Radio Nacional de Mineria, Sociedad Chilena Radiodifusora S. A. Casilla 2626, Santiago de Chile.

Daily Programmes in *Spanish:*
Weekdays from 23.30-04.00.
Sundays from 13.30-19.00 and 21.30-04.00

Announcement: "CB106 y CE622 Radio Sociedad Nacional de Mineria."

Message to Listeners: Reports are verified by letter.

CE-601 — LA VOZ DEL NORTE ANTOFAGASTA

Daily Programmes in *Spanish* from 02.00-04.00.

CE-960 — RADIO LA AMERICANA, SANTIAGO DE CHILE

Address: Casilla 13155 Correo 15, Santiago de Chile.

Daily Programmes in *Spanish* from 24.00-05.00.

CE-1174 — RADIO NUEVO MUNDO, SANTIAGO

Address: Radio Nuevo Mundo, Sociedad Radiodifusora Nuevo Mundo Ltd., Santiago de Chile.

Daily Programmes in *Spanish* from 22.00-05.00.

CE-1185 — RADIO EL MERCURIO, Santiago de Chile.

Address: Sociedad Radiodifusora La Mercantil, Calle Compania 1228, Santiago de Chile.

Daily Programmes in *Spanish* from 12.00-03.00.

CE-920, CE-1227 — RADIO EJERCITO, PUNTO ARENAS

Daily Programmes in *Spanish* from 23.30-05.00.

CB-1180 — RADIO SOCIEDAD NACIONAL DE AGRICULTURA, SANTIAGO

Address: Cacilla 40-D, Santiago.

Daily Programmes in *Spanish* from 11.00-13.00 and 21.00-03.00.
22.30-22.35 Relay from Paris.

Message to Listeners: Reports are verified by QSL-card.

COLOMBIA

Normal Clock Time — G. M. T. minus 5 hours.

Stations:

HJGB	4780 kc/s	62.76 m	2,5 kW
HJAN	4785 kc/s	62.70 m	5 kW
HJDX	4795 kc/s	62.57 m	0,75 kW
HJDU	4805 kc/s	62.44 m	0,75 kW
HJBB	4815 kc/s	62.31 m	0,75 kW
HJED	4825 kc/s	62.18 m	1 kW
HJKE	4835 kc/s	62.05 m	2.5 kW
HJGF	4847 kc/s	61.89 m	1 kW
HJCA	4855 kc/s	61.79 m	1 kW
HJFH	4874 kc/s	61.55 m	0,75 kW
HJDP	4885 kc/s	61.41 m	5 kW
HJCH	4895 kc/s	61.29 m	3 kW
HJAG	4903 kc/s	61.20 m	1 kW
HJCW	4945 kc/s	60.66 m	1 kW
HJCQ	4955 kc/s	60.54 m	2,5 kW
HJAE	4965 kc/s	60.42 m	1 kW
HJCX	6018 kc/s	49.85 m	0,75 kW
HJEX	6054 kc/s	49.56 m	2,5 kW
HJFA	6055 kc/s	49.55 m	0,75 kW
HJFK	6115 kc/s	49.04 m	2,5 kW
HJFB	6105 kc/s	49.14 m	1 kW
HJDE	6145 kc/s	48.82 m	5 kW
HJCD	6160 kc/s	48.70 m	10 kW
HJCT	6200 kc/s	48.39 m	10 kW
HJBF	6225 kc/s	48.19 m	4,5 kW
HJCF	6240 kc/s	48.09 m	0,75 kW
HJCAB	9690 kc/s	30.96 m	1 kW inactive
HJAP	9890 kc/s	30.33 m	0,75 kW
HJCT	11680 kc/s	25.68 m	1 kW
HJCT	11850 kc/s	25.32 m	2,5 kW

HJCAB — HJCT — HJCQ — RADIODIFUSORA NACIONAL Bogota.

Address: Ministerio de Educacion, Bogota.

Leading Personalities: General Manager: Mr. Gerardo Valencia.

Daily Programmes in *Spanish* from 15.00-19.00 and 22.00-04.15 Relay HJCR.

HJGB — RADIO SANTANDER, BUCARAMANGA

Address: Apartado 37, Bucaramanga.

Daily Programmes in *Spanish* from 12.00-14.00, 15.00-19.00 and 23.00-03.00.

Message to Listeners: Reports are answered by QSL cards.

HJAN — EMISORAS UNIDAS, BARRANQUILLA

Address: Apartado Nacional 324.

Daily Programmes in *Spanish* from 12.00-04.00.

Interval-Signal: At opening and close down: The national anthem "Colombiana".

HJBB — LA VOZ DE CUCUTA, CUCUTA

Address: Calle 13, Cucuta.

Daily Programmes in *Spanish* from 16.00-18.00 and 22.00-03.00.

Interval-Signal: Melody "Cilos", played on Organ.

HJED — LA VOZ DEL VALLE, CALI

Address: Calle 11 No. 4-52 Cali.

Daily Programmes in *Spanish* from 00.00-03.30.

Message to Listeners: Reports answered by QSL letter.

HJCA — RADIO CHRISTAL, BOGOTA

Address: Apartada postel 1636, Bogota.

Daily Programmes in *Spanish* from 12.00-04.00.
News daily at 12.00, 18.00 and 23.00.

Interval-Signal: At opening and close down "Marcha Christal". Every quarter hour: Gong.

Message to Listeners: Reports are verified by QSL card and photos of Colombian cities.

HJEX — RADIO PACIFICO, CALI

Daily Programmes in *Spanish* from 11.00-03.30.

Message to Listeners: Reports are answered by QSL letter.

HJCH — LA VOZ DE LA VICTOR, BOGOTA

Address: Apartado 565, Bogota.

Daily Programmes in *Spanish* from 23.00-03.00.

HJAP — RADIO COLONIAL, CARTAGENA

Address: Calle del Porvenir-Cartagena.

Daily Programmes in *Spanish* from 12.30-19.00 and from 22.00-03.30.
News daily at 16.45, 17.45, 23.45 and 01.30.

HJCW — RADIO SUR AMERICA, BOGOTA
Address: Correro 8 a No. 11-57.
Daily Programmes in *Spanish* from 12.00-16.00, 21.00-04.15.

HJAE — EMISORA FUENTES, CARTAGENA
Address: P. O. Box 31, Cartagena.
Daily Programmes in *Spanish* from 21.00-03.30.

HJCF — LA VOZ DE BOGOTA, BOGOTA
Address: Apartado 312, Bogota.
Daily Programmes in *Spanish* from 22.00-04.00.
Message to Listeners: Reports answered by QSL letter.

HJFK — LA VOZ AMIGA, PEREIRA
Daily Programmes in *Spanish* from 11.45-03.20.
Message to Listeners: Reports answered by QSL letter.

HJFB — RADIO MANIZALES, MANIZALES
Address: Apartado 175.
Daily Programmes in *Spanish* from 22.00-03.00.
Message to Listeners: Reports answered by QSL letter.

HJDE — LA VOZ DE ANTIOQUIA CIA COLOMBRANA DE RADIODIFUSORA, MEDELLIN
Address: Carrero Jumin No. 52-78.
Daily Programmes in *Spanish* on *Weekdays* from 16.00-04.00 (Sundays 02.45).
Message to Listeners: Reports answered by QSL card.

HJCX — LA VOZ DE COLOMBIA, BOGOTA
Address: Apartados: Postal No. 2665, Aereo No. 3855.

HJCD — EMISORA NUEVA GRANADA, BOGOTA
Daily Programmes in *Spanish* on *Weekdays* from 21.00-04.00.

HJDX — ECOS DE LA MONTANA, MEDELLIN
Address: Ant. Carrera 53, Medellin.
Leading Personalities: Director: Mr. Francisco Cuartas P.
Daily Programmes in *Spanish* from 13.00-19.00 and 21.00-03.30.

HJFH — LA VOZ De ARMENIA, ARMENIA
Address: Hoyos Gutierrez y Aristazabal. Armenia Caldas.
Leading Personalities: General Manager: Miguel Angel Arango. Director of Programmes: Anacleto Gallego. Chief Engineer: Juan C. Gutierrez.
Daily Programmes in *Spanish* from 12.00-13.00, 16.00-18.00 and 23.00-03.00.

HJGF — RADIO BUCARAMANGA, BUCARAMANGA
Daily Programmes in *Spanish* from 16.30-19.00 and 21.30-04.00.
Message to Listeners: Reports are answered by QSL letter.

HJDP — EMISSORA. CLARIDAD MEDELLIN
Leading Personalities: President: Mr. Samuel Parra B. Director General: Mr. Miguel A Parra B. Administrator: Mr. Pedro P. Parra B.
Daily Programmes in *Spanish* from 12.00-04.00.
News five minutes every half hour.
Symphony Concert Weekdays from 18.00-19.00.
Interval-Signal: Motive from the march: "Admirale All".

ECUADOR

Normal Clock Time — G. M. T. minus 5 hours.

HC5FK	2830 kc/s	106.00 m	0,20 kW
HC5EN	4000 kc/s	75.00 m	0,20 kW
HC5AO	4200 kc/s	71.43 m	0,20 kW
HC4FF	4560 kc/s	65.79 m	0,15 kW
HC2AK	4650 kc/s	64.51 m	7 kW
HC2AJ	4655 kc/s	64.45 m	1 kW
HC2GJ	4700 kc/s	63.83 m	0,25 kW
HC5LC	4700 kc/s	63.83 m	0,25 kW
HC6BT	4705 kc/s	63.76 m	0,2 kW
HC5BU	4715 kc/s	63.63 m	0,35 kW
HC1IM	4738 kc/s	63.52 m	0,20 kW
HC1BF	4750 kc/s	63.16 m	0,20 kW
HC4FA	4765 kc/s	62.96 m	0,20 kW
HC1PM	4780 kc/s	62.76 m	0,25 kW
HC1BT	4870 kc/s	61.60 m	0,5 kW
HC1QRX	5970 kc/s	50.26 m	0,25 kW
HCJB	5990 kc/s	50.09 m	1 kW
HC4FX	6015 kc/s	49.88 m	0,25 kW
HC2FQ	6065 kc/s	49.46 m	0,3 kW
HC1FM	6180 kc/s	48.54 m	0,25 kW
HC1AC	6210 kc/s	48.31 m	0,25 kW
HCJB	6240 kc/s	48.08 m	1 kW
HC2RL	6400 kc/s	46.88 m	0,2 kW
HC2AN	7350 kc/s	40.81 m	0,20 kW
HC1GP	7874 kc/s	38.10 m	0,25 kW
HC4NL	9870 kc/s	30.40 m	0,20 kW
HCJB	9958 kc/s	30.12 m	0,80 kW
HC2VP	11765 kc/s	25.50 m	0,20 kW
HC2FW	11805 kc/s	25.41 m	1 kW
HCJB	12455 kc/s	24.10 m	10 kW
HCJB	15115 kc/s	19.85 m	0,40 kW

HC2AN — RADIODIFUSORA CENIT GUAYAQUILL
Address: Casilla de Correo 171, Guayaquil.
Leading Personalities: Director: Mr. Washington Delgado Capeda. Manager: Mr. Julio Delgado C.
Daily Programmes in *Spanish* from 13.00-15.00, 17.00-19.30 and 22.30-04.30.
News at 13.30, 14.30, 19.15, 23.30, 00.00, 00.30 and 04.15.
Interval-Signal: At opening and closed down: "La Serenata China".
Message to Listeners: We ask all listeners to send us a report about how you hear our broadcasts and how you like our programmes.

HCJB — "LA VOZ DE LOS ANDES"

Address: Casilla 691, Quito. — New York Office: 156 Fifth Avenue, New York.

Leading Personalities: The Pioneer Missionary Broadcasters operated by the World Radio Missionary Fellow-ship Co. — Manager for HCJB: Mr. F. J. Cruz M. Directors: Mr. Clarence W. Jones, Mr. Reüben E. Larson and M. D. Stuart Clark.

Stations: HCJB, "La Voz de los Andes."

17890 kc/s	16.77 m	10 kW	9958 kc/s	31.12 m	1 kW
15115 kc/s	19.85 m	4 kW	6240 kc/s	48.08 m	1 kW
12455 kc/s	24.10 m	10 kW	5990 kc/s	50.09 m	4 kW

HCJB expects within some months to carry on tests in the 16 metre band.

Daily Programmes: From 11.30-14.00, 16.30-18.45 and 21.30-06.00 (exc. Monday which is silent day at HCJB).

In *English* from 11.30-13.00 and 21.30-05.30.

11.30 Canada calls (Sun.)	02.00 Back to the Bible
12.00 Back to the Bible	04.30 Organ Melodies

In *Spanish* from 11.30-1400, 16.30-18.30 and 22.30-03.00.
In *Czech.* from 21.30-22.00 (Wedn.). In *Dutch:* Sunday at 19.30, Friday at 21.30 and Wedn. at 05.30.

In *French:* Tuesday, Thursday, Saturday at 21.15, Wednesday at 05.30 and 21.00. In *German:* Sunday at 19.45.

In *Portüguese:* Daily (exc. Mon.) at 13.30 and 23.30.

In *Russian:* Friday at 05.30, Sunday at 21.00, Saturday at 05.30, 21.00 and 01.30. In *Swedish:* Sundays and Tuesday at 21.30 and on 16.77 m on Tuesd.

Announcement: In *English:* "This is the Voice of the Andes, Radio Station HCJB, broadcasting from Quito, Ecuador S. A."

Interval-Signal: Tone chimes f - c - c - a.

Message to Listeners: The Programmes describes the beautiful nature, the great values of our country and our wish to promote the GOSPEL of the Lord Jesus Christ. From this station "La Voz de los Andes", we broadcast a message of Christian brotherhood to our friends all over the world and especially to the readers of "World Radio Handbook". Reports answered by QSL-card.

HC1IM — LA VOZ DE IMBABURA, IBARRA

Daily Programmes in *Spanish* from 01.00-05.00.

HCQRX — LA VOZ DE LA CAPITAL
Address: Radio Quito, "La Voz de la Capital", Empresa Editora El Comercio, Quito.

Daily Programmes in *Spanish* from 11.45-04.45.

HC2FW/HC2FQ — RADIO CONTINENTAL
Address: Casilla 4020, Guayaquil.
Daily Programmes in *Spanish: Weekdays* from 16.00-21.00 and 22.00-04.00. *Sundays* from 18.00-20.00 on 15150 kc/s.

HC1AC — LA VOZ DE LA DEMOCRACIA
Address: Radiodifusora "La Voz de la Democracia", Calle León 780 y Oriente, Quito.

Daily Programmes in *Spanish* from 12.00-14.30, 17.00-21.00 and 22.30-04.30.

Message to Listeners: Reports are answered by QSL letter.

HC5AO — LA VOZ DEL TOMEBAMBA, CUENCA
Address: Apartado 23, Cuenca.

Daily Programmes in *Spanish* from 12.00-13.30, 16.30-19.00 and 23.00-03.30.

HC1BT — RADIO BOLIVAR LA VOZ DE LA LIBERTAD
Address: Radio Bolivar, Quito.

Daily Programmes in *Spanish* from 13.00-15.00, 17.00-19.00 and 23.00-03.00.

HC2AJ — RADIODIFUSORA DEL ECUADOR

Address: Compania Radiodifusora del Ecuador, Guayaquil.

Daily Programmes in *Spanish* from 12.00-13.15, 17.00-19.00 and 23.00-04.00.

HC5LC — LA VOZ DE LA RIOBAMBA, RIOBAMBA
HC1BF — RADIO COMMERCIAL, QUITO
HC1GP — RADIO ECUADOR AMAZONICO
Address: Calle Pereia 70, Quito.
HC1PM — RADIO EL PALOMARO QUITO
HC1QRX — RADIO QUITO, QUITO
HC6BT — LA VOZ DE TUNGURAGUA, AMBATO
HC2AN — RADIODIFUSORA CENIT, GUAYAQUIL
HC2VP — RADIO ATALAYA
HC2GJ — RADIO EL TELEGRAFO
Address: Casilla 759, Guayaquil.
HC2RL — QUINTA PIEDAD, GUAYAQUIL
HC4FX — RADIO MANTA, MANTA
HC4FA — RADIO LA VOZ DE MANABI, PORTOVIEJO
HC4AS — LA VOZ DE LAS CARES, BAHIA
HC4FF — LA VOZ DE ESMERALDAS, CIUDAD ESMERALDAS
HC5BU — RADIO UNIVERSAL, CUENCA
HC1FM — RADIO EQUINOCCIAL IBARRA
HC1GP — ECUADOR AMAZONICO QUITO

BRITISH GUIANA

Normal Clock Time — G. M. T. minus 3¾ hours.

Address: British Guiana United Broadcasting Co., Ltd., 30-32 New North Road, Bourda, Georgetown.
Leading Personalities: Manager: Mr. Peter J. Davis.
Stations: "The Voice of Guiana."
ZFY 6000 kc/s 50.00 m 1 kW (to be increased to 3 kW)
Daily Programmes in *English:*
Weekdays: 10.45-12.45, 14.45-16.45, 19.45-00.45.
Sundays: 10.45-16.45, 19.45-00.45.

Announcement: "This is ZFY, the voice of Guiana, 6000 kilocycles."
Message to Listeners: Reports are welcomed and verified.

DUTCH GUIANA (Surinam)

Normal Clock Time — G. M. T. minus 3 hours 40 minutes.

Address: Algemeene Vereenigung voor Radio Omroep en Surinam (AVROS), Paramaribo.

Stations: Avros, Paramaribo.

PZH5	5750 kc/s	52.18 m	0,35 kW
PZC	15400 kc/s	19.48 m	5 kW

Daily Programmes in **Dutch:**
PZH5 *Weekdays* from 13.00-14.30, 20.30-01.30.
Sundays from 13.30-15.30, 23.30-01.30.
PZC Daily from 21.00-22.30.
Announcement: "AVROS Paramaribo."
Message to Listeners: Reports answered by QSL-cards.

PARAGUAY

Normal Clock Time — G. M. T. minus 4 hours.

ZPA1	6275 kc/s	47.62 m	3 kW
ZPA4	9735 kc/s	30.82 m	1 kW
ZPA3	11850 kc/s	25.32 m	1,2 kW
ZPA5	11945 kc/s	25.12 m	2,5 kW

ZPA5-RADIO ENCARNACION
Address: Radio Encarnacion, Compania Paraguaya de Radiodifusion, Encarnacion.
Direction: Casilla de Correo 5522, Posadas, Misiones, Argentine.

Leading Personalities: President: Don Luis Peroni. Vice-President and General Manager: Mr. Nicolas Irianni. Director: Don Jaime Yankelevich. Director-Manager: Mr. Fernando Ramos.

Daily Programmes from ZPA5 in *Spanish* from 11.00-02.05
Message to Listeners: "We arrange broadcasts to all countries in the world on fixed dates." Reports are answered by QSL card.

ZPA1 — RADIO DEL ESTADO
Address: Calle Coronel Martinez 224, Asuncion.

Leading Personalities: Director: Mr. A. R. Medina. Director of Programmes: M. Benedetti.

Daily Programmes from ZPA1 in *Spanish* from 15.00-17.00 and 23.00-03.00.
Message to Listeners: Reports are answered by QSL card or letter.

ZPA3-RADIO TELECO
Address: Calle Azara 56, Asuncion.
Leading Personalities: Manager: Mr. Carlos Carvallo.

Daily Programmes from ZPA3 in *Spanish* from 12.00-03.00
Message to Listeners: Reports answered by QSL card.

ZPA4 — RADIO STENTOR
Address: Calle Indenpendencia Nacional 703 Asuncion.
Daily Programmes in *Spanish* from12.00-03.00.

PERU

Normal Clock Time — G. M. T. minus 5 hours.

Stations:

OAX4Z	5894 kc/s	50.89 m	15 kW
OAX4V	5907 kc/s	50.78 m	0,5 kW
OAX4P	5984 kc/s	50.14 m	0,25 kW
OAV4C	6000 kc/s	50.00 m	0,2 kW
OAX2A	6001 kc/s	49.99 m	0,25 kW
OAX4Q	6020 kc/s	49.83 m	1 kW
OAX6B	6035 kc/s	49.71 m	0,2 kW
OAX6A	6042 kc/s	49.65 m	0,2 kW
OAX4H	6095 kc/s	49.22 m	1 kW
OAX7A	6128 kc/s	48.96 m	1 kW
OAX8C	6140 kc/s	48.86 m	0,3 kW
OAX1A	6150 kc/s	48.78 m	0,25 kW
OAX4B	6170 kc/s	48.62 m	0,1 kW
OAX5E	6170 kc/s	48.62 m	0,3 kW
OAX6G	6170 kc/s	48.62 m	0,2 kW
OAX1B	6197 kc/s	48.41 m	0,4 kW
OAX4L	6220 kc/s	48.23 m	0,5 kW
OAX4M	6315 kc/s	47.51 m	0,2 kW
OAX6E	6333 kc/s	47.37 m	0,3 kW
OAX4G	6410 kc/s	46.80 m	0,25 kW
OAX1A	6700 kc/s	44.78 m	0,2 kW
OAX4J	9330 kc/s	32.15 m	0,25 kW
OAX4W	9375 kc/s	32.00 m	0,5 kW
OAX6H	9500 kc/s	31.58 m	0,1 kW
OAX6D	9500 kc/s	31.58 m	0,3 kW
OAX4T	9562 kc/s	31.37 m	10 kW
OAX4K	9585 kc/s	31.30 m	0,2 kW
OAX5C	9815 kc/s	30.51 m	0,15 kW
OAX4R	15150 kc/s	19.80 m	10 kW

RADIO NACIONAL DEL PERU
Address: Radio Nacional del Peru, Av. Petit Thouars 441, Lima.

Stations: Radio Nacional del Peru.

OAX-4Z	5894 kc/s	50.89 m	15 kW	
OAX-4T	9562 kc/s	31.37 m	10 kW	occasionally
OAX-4R	15150 kc/s	19.80 m	10 kW	occasionally

Daily Programmes in *Spanish* from 12.45-14.00, 16.00-19.00 and 23.00-04.30.
Official *News* at 01.00 and 03.00.

OAX4Q — RADIO VICTORIA
Address: Radio Victoria, Edificio Mineria No. 508-510, Lima.
Daily Programmes in *Spanish* from 12.30-05.00 (Sat. 06.00).
Announcement: "OAX-4X y OAX-4Q, Radio Victoria del Peru."
Interval-Signal: The first five bars of Beethoven's 5th Symphony.
Message to Listeners: "We endeavour to present for the listeners our best national and foreign artists, who make their debut at the principal theatres in our capital."

OAX2A — RADIO TRUJILLO — OAX4V, OAX4W — RADIO AMERICA
Address: Cia Peruana de Radiodifusora, Jiron Ocona 476, Lima.
Daily Programmes in *Spanish:*
OAX2A: Weekd.: 16.00-19.00, 23.00-04.30. Sun. 16.00-05.00.
OAX4V: 12.55-04.45.
OAX4W: 12.55-04.45.
Message to Listeners: Reports are verified by letter.

OAX6E/OAX6D — RADIO CONTINENTAL
Address: J. Antonio Umbert F., 30 Piso, Teatro Municipal, Arequipa.
Daily Programmes in *Spanish* from 16.00-05.00.

OAX7A — RADIO CUSCO
Address: Carlos Lizarraga Fisher, Montes 43, Cusco.
Daily Programmes in *Spanish* from 23.00-04.00.

OAX1B — RADIO PIURA, PIURA
Address: Apartado No. 149, Piura.
Daily Programmes in *Spanish:*
OAX1A: Weekd.: 16.00-19.00 and 23.00-04.30.
Sun.: 23.00-04.30.
OAX1B: 23.00-04.30.

OAX5E — RADIO CHINCHA
Address: Gonzales Jordan Canepa, Los Angeles, Chincha.
Daily Programmes in *Spanish* from 23.00-04.30.

OAX4G — RADIO LIMA
Address: Casilla 2234, Lima.
Daily Programmes in *Spanish* from 13.00-05.00 (Sat. 06.00).

OAX4P — LA VOZ DEL CENTRO DEL PERU
Address: Apartado 187, Huancayo.
Daily Programmes in *Spanish* from 16.30-19.00 and 01.00-04.30.
Message to Listeners: Reports are verified by QSL-card.

OAX4J — RADIO COLONIAL
Address: Apartada 1166, Lima.
Daily programmes in *Spanish* from 13.00-14.00, 16.00-18.00, 23.00-05.00.
Message to Listeners: Reports are answered by letter.

OAX5C — RADIO UNIVERSAL
Address: Raul Claux Budge, Loreto 124/128, Ica.
Daily Programmes in *Spanish* from 16.30-19.00 and 22.00-04.30.

OAX4H — RADIO MUNDIAL
Address: Apartado 1098, Lima.
Daily Programmes in *Spanish* from 12.30-05.00 (Sat. 06.00).

OAX4K — RADIO CENTRAL
Address: Ingo Juan P. Goicocha, Jiron Union 1038, Lima.
Daily Programmes in *Spanish* from 12.30-05.00 (Sat. 06.00).

OAX6H — RADIO TACNA, TACNA
Address: Casilla 188, Tacna, Peru.
Daily Programmes in *Spanish* from 23.00-04.00.

OAX1A — "RADIO DELCAR", CHICLAYO
OAX4B — "RADIO AZUL", CERRO DE PASCO
OAX4V—OAX4W — "RADIO AMERICA, LA VOZ DEL NUEVO MUNDO", LIMA
OAX6A — "RADIO AREQUIPA", AREQUIPA
OAX6B — "RADIO LANDA", AREQUIPA

URUGUAY

Normal Clock Time — G. M. T. minus 3½ hours.

CXA-30	6035 kc/s	49.71 m	1 kW
CXA-14	6055 kc/s	49.55 m	5 kW
CXA-3	6075 kc/s	49.38 m	2,5 kW
CXA-4	6125 kc/s	48.98 m	10 kW
CXA-13	6155 kc/s	48.74 m	10 kW
CXA-21	6170 kc/s	48.62 m	1 kW
CXA-6	9620 kc/s	31.19 m	20 kW
CXA-8	9640 kc/s	31.12 m	3 kW
CXA-19	11835 kc/s	25.35 m	5 kW
CXA-10	11900 kc/s	25.21 m	20 kW
CXA-18	15300 kc/s	19.60 m	20 kW under construction.

RADIO ELECTRICA
Address: Servicio Official de Difusion Radio Electrica (S. O. D. R. E.) Andes 1459, Montevideo.
Leading Personalities: President: Doctor Ernesto Llovet. Vice-President: Doctor Jose Maria Delgado. Secretary: Doctor A. Osvaldo Santini. Director-General: Don Hector M. Laborde. Chief Engineer: Don Dante Tartaglia.

Stations: Radio Electrica.

CXA-4	6125 kc/s	48.98 m	5 kW under construction
CXA-6	9620 kc/s	31.18 m	20 kW
CXA-10	11900 kc/s	25.21 m	20 kW
CXA-18	15300 kc/s	19.60 m	20 kW

Daily Programmes in *Spanish:*
CXA 6: 15.00-17.45 (Sun. 17.30) 20.30-02.30 (Sun. 00.15-00.30)
CXA 10: 00.00-02.30 (Sun. 00.15-00.30) 17.30-18.00 (Sun.)
French by Radio: 00.00 (Mon., Wedn., Fri.) 17.15 (Tuesd., Thursd., Sat.)
English by Radio: 00.00 (Tuesd., Thursd., Sat.)
Symphony Concert: 01.00 (Weekd.) 21.50 (only Sat.)
Football Transmission: Every Sat. 18.45-20.45 and Sun. 17.50-20.45.
Opera: 16.15 (Sun.)
News: 15.30, 20.30, 00.15, 02.30.

Announcement: "Estacion Official del Estado, Servicio Official de Difusion Radio Electrica, CX 6, CXA 6 y CXA'10".

Message to Listeners: "The object of the Official Broadcasting Service (SODRE) is to cultivate and elevate public interest by means of its broadcasts and artistic performances of high rank, inspired by a desire for spiritual perfection and to strengthen sincere bonds of friendship between nations."

CXA19, CXA18 — RADIO EL ESPECTADOR
Address: Radio El Espectador, Difusoras del Uruguay S. A. 18 de Julio 1393, Montevideo, Uruguay.

Leading Personalities: President: Lorenzo F. Balerio Sicco. General Manager: Jorge Cubilo. Director: Walter B. Alfars. Chief Engineer: R. Danilo Valverde.

Daily Programmes in *Spanish* from 11.00-03.00.
Time between news and commentaries is covered with music, either transcribed or by orchestras.

Announcement: "Difusoras el Espectador de Montevideo, CX14 y CXA19."

Message to Listeners: "Under the Southern Cross vibrates in the voice of "El Espectador" the fervent wish for and the ratification of the Liberty of Man. The first democratic tribune in Uruguay, dedicated in body and soul to fight for the right of liberty of speech and expression. Reports are verified by QSL-card.

CXA21 — RADIO FENIX
Address: 18 de Julio 965, Montevideo.
Daily Programmes in *Spanish* from 22.00-01.00.

CXA30 — RADIO NACIONAL
Address: 18 de Julio 1764, Montevideo.
Daily Programmes in *Spanish* from 15.00-17.00, 20.00-01.00.
Message to Listeners: Reports are answered by QSL cards.

CXA8—CXA14 — RADIO REAL DE SAN CARLOS
Address: Radio Real de San Carlos, Flores 30, Colonia.
Daily Programmes in *Spanish* from 11.00-14.00, 22.00-03.00.

CXA3 — RADIO ARIEL
Address: Radio Ariel, 18 de Julio 1277, Montevideo.
Daily Programmes in *Spanish* from 10.00-12.00, 14.00-16.45 and 19.45-24.00.

CXA13 — RADIO CARVE MONTEVIDEO
Daily Programmes in *Spanish* from 11.00-03.00.

CXA14 — RADIO REAL DE SAN CARLOS, COLONIA

VENEZUELA

Normal Clock Time — G. M. T. minus 4½ hours.

Stations:

YV1RO	3310 kc/s	90.63 m	0,62 kW
YV6RK	3330 kc/s	90.09 m	1 kW
YV3RC	3341 kc/s	89.81 m	0,2 kW
YV5RS	3350 kc/s	89.58 m	1 kW
YV1RT	3370 kc/s	89.02 m	0,45 kW
YV5RY	3380 kc/s	88.76 m	7,5 kW
YV5RW	3400 kc/s	88.24 m	0,75 kW
YV2RC	3420 kc/s	87.72 m	0,3 kW
YV4RK	3430 kc/s	87.48 m	0,3 kW
YV1RU	3440 kc/s	87.21 m	0,7 kW
YV6RH	3450 kc/s	86.96 m	1 kW
YV4RP	3460 kc/s	86.71 m	0,7 kW
YV8RB	3470 kc/s	86.40 m	0,2 kW
YV4RQ	3480 kc/s	86.21 m	0,58 kW
YV3RS	3490 kc/s	85.96 m	0,65 kW
YV5RX	3505 kc/s	85.59 m	1,75 kW
YV6RC	3515 kc/s	85.34 m	1 kW
YV5RS	3530 kc/s	84.99 m	0,95 kW
YV2RM	3550 kc/s	84.48 m	1 kW
YV5RD	3570 kc/s	84.07 m	1 kW
YV7RB	3590 kc/s	83.51 m	1 kW
YV4RM	3620 kc/s	82.87 m	0,2 kW
YV5RY	4725 kc/s	63.45 m	1 kW
YV1RV	4750 kc/s	63.16 m	0,2 kW
YV5RV	4760 kc/s	63.03 m	0,25 kW
YV1RY	4770 kc/s	62.89 m	0,25 kW
YV4RO	4780 kc/s	62.76 m	0,20 kW
YV6RU	4790 kc/s	62.63 m	0,62 kW
YV1RX	4800 kc/s	62.50 m	2 kW
YV1RL	4810 kc/s	62.37 m	0,23 kW
YV9RA	4820 kc/s	62.24 m	1 kW
YV2RN	4830 kc/s	62.11 m	1,3 kW
YV1RZ	4840 kc/s	62.00 m	1,5 kW
YV3RM	4860 kc/s	61.73 m	0,3 kW
YV5RU	4880 kc/s	61.47 m	7,5 kW
YV5RM	4890 kc/s	61.35 m	5 kW
YV1RY	4907 kc/s	61.13 m	0,21 kW
YV5RN	4915 kc/s	61.04 m	5 kW
YV3RN	4940 kc/s	60.73 m	0,3 kW
YV3RS	4990 kc/s	60.12 m	6 kW
YVKC	5020 kc/s	59.75 m	10 kW
YV6RD	5050 kc/s	59.40 m	1 kW
YV5RD	5057 kc/s	59.32 m	2,5 kW
YV1RG	6150 kc/s	48.78 m	4 kW
YV6RD	6205 kc/s	48.35 m	1 kW
YVKC	7400 kc/s	40.54 m	1 kW
YVKC	9640 kc/s	31.12 m	10 kW

YV5RU — ONDAS POPULARES
Address: Apartado de Correos 587, Caracas.
Leading Personalities: Director: Mr. Oscar Eduardo Rickel. Sub. Director: Mr. Luis Brito Arocha. Director of Programmes: Mr. Alfredo Ferrara.
Daily Programmes in *Spanish* from 16.30-04.15.
Interval-Signal: Gong. At opening and close down is played the "Ondas Populares March".
Message to Listeners: Reports are answ. by QSL card.

YVKC — RADIOFUSORA NACIONAL CARACAS
Daily Programmes in *Spanish* from 16.30-03.30.
News at 17.00, 02.40, 03.15.
Relay from U. N. at 23.00 daily.

YV5RN — RADIO CARACAS, CARACAS
Daily Programmes in *Spanish* Weekdays from 11.00-03.30 Sundays from 12.30-03.30.
Message to Listeners: Reports are answ. by QSL card.

YV5RM — RADIODIFUSORA VENEZUELA, CARACAS
Daily Programmes in *Spanish* from 10.25-03.30.
Message to Listeners: Reports are answ. by QSL card.

YV3RN — RADIO BARAQUISIMETO, BARAQUISIMETO
Daily Programmes in *Spanish* from 11.30-03.30.

YV1RO — RADIO TRUJILLO, TRUJILLO
Address: Calle Independencia 200, Trujillo.
Daily Programmes in *Spanish* from 22.00-02.30.

YV5RS — RADIO LIBERTADOR, CARACAS
Daily Programmes in *Spanish* from 22.30-03.30.

YV1RT — LA VOZ DE LA FE, MARACAIBO
Daily Programmes in *Spanish* from 22.30-03.30.

YV5RY — RADIO CONTINENTE
Address: Bolsa a Padre Sierra 22, Caracas.
Daily Programmes in *Spanish* from 14.30-03.30.

YV4RQ — RADIO PUERTO CABELLO, PUERTO CABELLO
Daily Programmes in *Spanish* from 22.00-02.30.

YV3RS — RADIODIFUSORA OCCIDENTAL, BARAQUISIMETO
Daily Programmes in *Spanish* from 21.30-02.30.

YV7RB — RADIO SUCRE, CUMANA
Daily Programmes in *Spanish* from 16.00-17.30 and 21.30-02.30.

YV6RU — ECOS DEL ORINOCO, CIUDAD BOLIVAR
Daily Programmes in *Spanish* from 22.30-02.30.

YV1RX — ONDAS DEL LAGO, MARACAIBO
Address: Apartado 261, Maracaibo.
Daily Programmes in *Spanish* from 10.30-03.30.

YV1RL — RADIO POPULAR, MARACAIBO
Address: P. O. Box 247, Maracaibo.
Daily Programmes in *Spanish* from 10.30-03.30.

YV2RN — LA VOZ DEL TACHIRA, San CHRISTOBAL
Address: Apartado 37, S. Christobal.
Daily Programmes in *Spanish* from 16.00-02.30.

YV1RZ — RADIO VALERA, VALERA
Address: Calle Bolivar 54, Valera.
Daily Programmes in *Spanish* from 15.45-17.30 and 21.30-02.40.

YV6RD — LA VOZ DE GUYANA, CIUDAD BOLIVAR
Daily Programmes in *Spanish* from 22.00-04.15.

YV5RD — RADIO CULTURA, CARACAS
Daily Programmes in *Spanish* from 15.30-03.30.

YV1RG — RADIO CABIMAS, CABIMAS
Address: Calle Democracia, Cabimas.
Daily Programmes in *Spanish* from 09.30-11.30, 14.30-16.30 and 20.30-01.30.

YV4RK — RADIO MARACAY, MARACAY
YV6RC — EMISORAS UNIDAS, BARCELONA
Daily Programmes in *Spanish* from 23.00-02.30.
YV1RU — RADIO MARACAIBO, MARACAIBO
YV6RK — LA VOZ DEL TIGRE, EL TIGRE
Daily Programmes in *Spanish* from 23.00-04.30.
YV6RH — EMISORAS UNIDAS, BARCELONA
YV3RC — RADIO CAROVA, CAROVA
YV2RC — LA VOZ DE LA SIERRA, MERIDA
YV5RY — RADIO CONTINENTE, CARACAS
YV4RP — RADIO VALENCIA, VALENCIA
YV8RB — RADIO MONAGAS, MATURIN
YV5RX — LA VOZ DE LA PATRIA, CARACAS
YV5RS — RADIO LIBERTADOR, CARACAS
YV4RM — RADIO GIRARDET, MARACAY
YV1RV — ECOS DEL ZULIA, MARACAIBO
YV5RV — EMISORAS VARGAS, LA GUAIRA
YV9RA — LA VOZ DE APURE, SAN FERNANDO
YV4RO — LA VOZ DE CARABOBO, VALENCIA
YV3RM — RADIO UNIVERSAL, BARQUISIMETO
YV1RY — RADIO CORO, CORO
Daily Programmes in *Spanish* from 21.00-03.30.
Message to Listeners: Reports are answ. by QSL letter.
YV5RD — RADIO CULTURA, CARACAS

PRAHN

RADIO COMPONENTS

★ **Coil Assemblies** changing by switch or by keys
★ **Intermidate Frequency Transformers** for every frequency
★ **Wave Traps** series or shunt
★ **9 kc Interference Filters**
★ **Power Line Noise Filters**
★ **Special Chokes**
★ **RF Chokes**
★ **Polystyrene Coil Formers**
★ **Bakelite Coil Formers**
★ **Switches - Dials - Knobs**
★ **Midget Air-Dielectric Variable Condensers**

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LONG- AND MEDIUM WAVE STATIONS

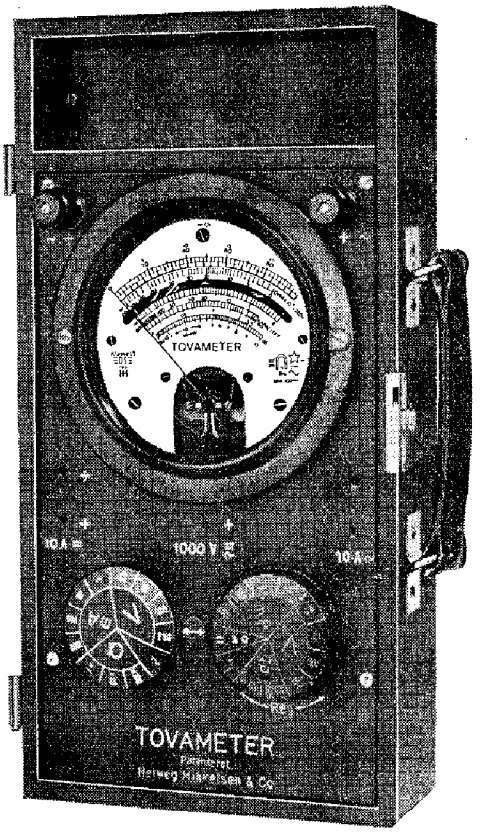
EUROPE — NORTH AFRICA — NEAR EAST

kc/s	Metres	kW	Station
153	1961	120	**Kowno** — U. S. S. R.
155	1935	10	**Prague** — Czechoslovakia
160	1875	150	**Lahti** — Finland
160	1875	10	**Kootwijk** — Holland
160	1875	150	**Romania (Brasov)** — Roumania
167	1796	50	**Ottringham** — Gt. Brit.
174	1724	500	**Moscow I** — U. S. S. R.
182	1648	120	**Ankara** — Turkey
182	1648	50	**Strasbourg** — France
191	1571	100	**Deutschlandsender** — Germany: U. S. S. R. Zone
200	1500	150	**Droitwitch** — Gt. Brit.
200	1500	100	**Moscow** — U. S. S. R.
208	1442	100	**Leningrad** — U. S. S. R.
216	1389	150	**Motala** — Sweden
217	1376	2,5	**Deutschlandsender** — Germany: U. S. S. R. Zone
224	1339	10	**Warsaw II** — Poland
232	1293	150	**Luxembourg**
232	1293	100	**Moscow** — U. S. S. R.
240	1250	60	**Kalundborg** — Denmark
248	1210	150	**Kiev** — U. S. S. R.
253	1186	10	**Bodoe** — Norway
260	1154	60	**Oslo** — Norway
260	1154	20	**Bergen I** — Norway
269	1115	50	**Minsk** — U. S. S. R.
271	1107	100	**Reykjavik** — Iceland
278	1078	1	**Gdansk** — Poland
283	1056	50	**Kasan** — U. S. S. R.
284	1056	20	**Berlin »Wolga«** — Germany: U. S. S. R. Zone
292	1027	10	**Tromsoe** — Norway
310	968	1	**Joensuu** — Finland
347	865	1	**Finmark** — Norway
355	845	1	**Bergen II** — Norway
385	779	50	**Charkow** — U. S. S. R.
392	765	25	**Banska Bystrica** — Czechosl.
392	765	10	**Luleå** — Sweden
400	750	10	**Petrozavodsk** — U. S. S. R.
415	722	10	**Oestersund** — Sweden
433	693	10	**Oulu (Uleåborg)** — Finland
514	583	15	**Pizen** — Czechoslovakia
519	578	1	**Hamar** — Norway
519	578	2	**Innsbruck** — Austria French Zone
519	578	1,2	**Vorarlberg/Dornbirn** — Austria
527	569	2	**Bremen** — Germany am. Zone
527	569	20	**Kuopio** — Finland
527	569	0,6	**Ljublana** — Yugoslavia
527	569	20	**Kranj** — Yugoslavia
530	566	2	**Kaiserlautern** — Germany Fr. Zone
536	559	20	**Bolzano** — Italy
536	559	5	**Sardegna** — Italy: Autonome
536	559	50	**Wilna** — U. S. S. R.
541	554	4	**Kalundborg** — Denmark
546	549	50	**Budapest I** — Hungary
556	539	50	**Rostow/Don** — U. S. S. R.
556	540	100	**Beromünster** — Switzerland
564	532	1,5	**Dresden** — Germany: U. S. S. R. Zone
564	532	20	**Potsdam** — Germany: U. S. S. R. Z.
565	531	100	**Athlone** — Eire
565	531	0,75	**Klagenfurt** — Austria: B. F. N.
565	531	0,75	**Graz** — Austria: B. F. N.
565	531	10	**Palermo** — Italy
574	522	100	**Stuttgart** — Germany: U. S. Zone
583	514	50	**Riga** — U. S. S. R.
583	514	20	**Droitwitch** — Gt. Brit.
592	506	2,5	**Paris Inter** — France
592	506	10	**Vienna I** — Austria: U. S. S. R. Z.
592	506	2	**Damascus** — Syria
601	499	20	**Rabat I** — Fr. Morocco
601	499	10	**Frankfurt** — Germany A. F. N.
601	499	10	**Sundsvall** — Sweden
601	499	15	**Athens** — Greece
610	491	100	**Florence I** — Italy
615	487	1	**Eidar** — Iceland
620	483	100	**Moscow** — U. S. S. R.
620	484	20	**Cairo I** — Egypt
620	483	20	**Brussels I** — Belgium
629	476	25	**Berlin RIAS** — Germany U. S. Z.
629	476	50	**Lisbon I** — Portugal
629	476	100	**Vigra** — Norge
629	476	20	**Kristiansand** — Norway
629	476	1	**Linz KOFA** — Austria: U. S. Zone
629	476	20	**Zagreb** — Yugoslavia
638	470	120	**Prague I (Liblice)** — Czechosl.
648	463	100	**Limoges I - Nieul** — France
657	456	100	**Norden** — Germany: (B. B. C.)
665	451	0,9	**Ajdovscina** — Yugoslavia
665	451	5	**Maribor** — Yugoslavia
668	449	100	**Moorside Edge** — Gt. Brit.
677	443	100	**Sottens** — Switzerland
686	437	20	**Belgrade I** — Yugoslavia
686	437	18	**Madrid EAJ7** — Spain
695	431	100	**Paris I (Villebon)** — France
704	426	55	**Stockholm** — Sweden
704	426	0,2	**Malmberget** — Sweden
704	426	60	**Andorra** — Andorra la Vieja
713	420	100	**Rome I** — Italy
713	420	100	**Moscow** — U. S. S. R.
722	415	120	**Berlin »Wolga«** — Germany: U. S. S. R. Zone
722	415	20	**Lisbon II** — Portugal
722	415	60	**Hilversum II** — Holland
730	411	4	**Beyrouth** — Lebanon
731	410	50	**Tallinn** — U. S. S. R.
731	410	10	**Seville EAJ 5** — Spain
731	410	120	**Monte Carlo** — Monaco
731	410	0 5	**Assiut** — Egypt
740	405	100	**Munich** — Germany: U. S. Zone
749	400	20	**Marseilles I** — France
749	400	100	**Leningrad** — U. S. S. R.
758	395	50	**Warsaw I** — Poland
758	395	3,5	**Madrid EAJ 2** — Spain
767	391	15	**Sofia I** — Bulgaria
767	391	60	**Burghead (Scotland)** — Gt. Brit.
767	391	60	**Westerglen (Scotland)** — Gt. Brit.
767	391	2,5	**Aberdeen (Scotland)** — Gt. Brit.
767	391	1,5	**Rijeka** — Yugoslavia
776	386	10	**Paris II** — France
785	382	120	**Leipzig** — Germany: U. S. S. R. Z.
795	377	10	**Barcelona EAJ I** — Spain
795	377	10	**Lvov** — U. S. S. R.
804	373	60	**Washford** — Gt. Brit.
804	373	10	**Penmon** — Gt. Brit.
804	373	1	**Wrexham** — Gt. Brit.
804	373	2	**Salonike** — Greece
814	368	50	**Milan I** — Italy
823	364	12	**Bucarest I** — Roumania
823	364	120	**Tunis** — Tunis
823	364	20	**Troendelag** — Norway
827	362	18	**Freiburg** — Germany: French Z.

kc/s	Metres	kW	Station
827	362	1,5	**Baden Baden** — Germany: Fr. Z.
827	362	5	**Sigmaringen** — Germany: French Z.
832	360	100	**Moscow** — U. S. S. R.
832	360	0,2	**Montpellier II** — France
832	360	0,05	**Grenoble II** — France
832	360	10	**Quimper-Quimerch** — France
835	359	0,75	**Tlemcen** — Algeria
841	356	100	**Berlin** — Germany: U. S. S. R. Z.
850	352	100	**Sofia II** — Bulgaria
850	352	30	**Zaragoza EAJ 101** — Spain
850	352	100	**Stavanger** — Norway
859	349	20	**Strasbourg I** — France
859	349	20	**Simferopol** — U. S. S. R.
868	345	6	**Poznan** — Poland
868	345	0,8	**Vienna** — Austria B. F. N.
868	345	10	**Brussels IV** — Belgium
868	346	1	**Rabat II** — Fr. Morocco
877	342	100	**Brookman's Park London** — Gt. Brit.
886	338	100	**Alpenland** — Austria: British Zone
895	335	100	**Lyon I** — France
895	335	40	**Turku (Åbo)** — Finland
904	331	100	**Hamburg/Cologne** — Germany: Br. Z.
913	328	100	**Toulouse I** — France
922	325	100	**Brno I** — Czechosl.
922	325	20	**Komarov** — Czechokoslovakia
932	321	20	**Brussels II** — Belgium
940	320	2,5	**Belgrade II** — Yugoslavia
941	318	10	**Gothenburg** — Sweden
941	319	20	**Algiers I** — Algeria
950	315	100	**Moscow** — U. S. S. R.
950	315	50	**Wroclaw** — Poland
950	315	3	**Nuremberg** — Germany: Am. Zone
950	315	0,3	**Hof** — Germany: Amer. Zone
959	312	20	**Nancy I** — France
961	312	1	**Namsos** — Norway
968	309	20	**Pau** — France
977	307	100	**Start Point** — Gt. Brit.
986	304	24	**Torun** — Poland
986	304	5	**Genoa II** — Italy
986	304	80	**Turin I** — Italy
995	301	100	**Hilversum I** — Holland
1004	298	50	**Bratislava** — Czechoslovakia
1004	298	1	**Casablanca** — Fr. Morocco
1013	296	60	**Droitwich** — Gt. Brit.
1013	296	1	**Norwich** — Gt. Brit.
1022	293	10	**Cracow** — Poland
1022	293	120	**Madrid Arganda** — Spain
1022	293	1.5	**Madrid Local** — Spain
1031	291	50	**Coblenz** — Germany: French Zone
1031	291	20	**Weimar** — Germany: U. S. S. R.
1040	288	8	**Budapest II** — Hungary
1040	288	20	**Leningrad** — U. S. S. R.
1040	288	100	**Rennes I** — France
1050	285	100	**Stagshaw** — Gt. Brit.
1050	285	100	**Lisnagarvey** — Gt. Brit.
1050	285	1	**Londonderry** — Gt. Brit.
1053	285	5	**Bucarest II** — Roumania
1059	283	20	**Bari I** — Italy
1063	282	2	**Brno II** — Czechoslovakia
1068	281	10	**Montbel'ard** — France
1068	280	2	**Nimes** — France
1068	280	20	**Parede** — Portugal
1068	280	1	**Vienna** — Austria: U. S. Zone
1068	280	2,5	**San Sebastian** — Spain
1068	280	1	**Naples II** — Italy
1068	280	1	**Bologna II** — Italy
1070	280	0,25	**Algiers III** — Algeria
1077	278	100	**Bordeaux I** — France
1080	278	0,5	**Pristina** — Yugoslavia
1086	276	100	**Falun** — Sweden
1086	276	1	**Fes** — Fr. Morocco
1086	276	20	**Sarajevo** — Yugoslavia
1086	276	0,15	**Constantin I** — Algeria
1095	274	1	**Berlin** — Germany: Brit. Z.
1095	274	10	**Elmshorn** — Germany: Brit. Z.
1095	274	10	**Hannover** — Germany: Brit. Z.
1095	274	20	**Langenberg** — Germany: Brit. Z.
1104	272	5	**Catania** — Italy
1104	272	5	**Florence II** — Italy
1104	272	1,3	**Salzburg KZCA** — Austria: Amer. Z.
1113	270	60	**Prague II** — Czechoslovakia
1113	270	10	**Algiers II** — Algeria
1122	267	0,4	**Nyiregyháza** — Hungary
1122	267	60	**Crowborough** — Gt. Brit.
1122	267	1	**Barcelona EAJ 15** — Spain
1122	267	0,5	**Alexandria** — Egypt
1131	265	100	**Hörby** — Sweden
1131	265	2,5	**Bilbao** — Spain
1140	263	10	**Trieste** — Italy: Autonome
1140	263	0,25	**Liége** — Belgium
1149	261	60	**Brookmans Park** — Gt. Brit.
1149	261	60	**Moorside Edge** — Gt. Brit.
1149	261	60	**Westerglen** — Gt. Brit.
1149	261	20	**Burghead** — Gt. Brit.
1149	261	10	**Lisnagarvey** — Gt. Brit.
1149	261	10	**Stagshaw** — Gt. Brit.
1149	261	2	**Aberdeen** — Gt. Brit.
1149	261	2	**Redruth** — Gt. Brit.
1149	261	1	**Plymouth** — Gt. Brit.
1149	261	1	**Londonderry** — Gt. Brit.
1158	259	11	**Ostrava** — Czechoslovakia
1158	259	20	**Bordeaux II** — France
1158	258	0,25	**Dijon I** — France
1167	257	15	**Monte Ceneri** — Switzerland
1172	256	2	**Tatry** — Czechoslovakia
1172	256	0,8	**Osijek** — Yugoslavia
1176	255	30	**Copenhagen** — Denmark
1185	253	60	**Nice I** — France
1195	251	60	**Frankfurt** — Germany: U. S. Zone
1204	249	100	**Kosice** — Czechoslovakia
1213	247	100	**Lille I** — France
1222	245	1	**Porsgrunn** — Norway
1222	245	0,3	**Narvik** — Norway
1222	245	20	**Venice I** — Italy
1222	245	3,5	**Groningen** — Holland
1222	245	1,5	**Maastricht** — Holland
1231	243	20	**Schwerin** — Germany: U. S. S. R. Z.
1231	243	10	**Gliwice** — Poland
1240	241	20	**Skoplje** — Yugoslavia
1240	241	1	**Cork** — Eire
1249	240	100	**Munich** — Germany: A. F. N.
1249	240	100	**Stuttgart** — Germany: A. F. N.
1249	240	0,2	**Bone** — Algeria
1255	239	0,2	**Oran** — Algeria
1258	238	5	**Rome II** — Italy
1258	238	1	**Udine** — Italy
1258	238	20	**La Coruna** — Spain
1258	238	0,2	**Asturias** — Spain
1258	238	5	**Valencia EAJ3** — Spain
1258	238	20	**Madona** — U. S. S. R.
1267	236	5	**Salzburg** — Austria: U. S. Zone
1267	236	20	**Saarbrücken** — Germany: Fr. Zone
1267	236	0,5	**Kassel** — Germany: U. Z. Zone
1276	235	10	**Fredrikstad** — Norway
1276	235	2	**Varna** — Bulgaria

kc/s	Metres	kW	Station
1285	233	5	**Brussels III** — Belgium
1285	233	6	**Vienna** — Austria: Br. Zone
1285	233	15	**Klagenfurt** — Austria: British Z.
1285	233	15	**Graz** — Austria: British Zone
1294	231	15	**Linz** — Austria: U. S. Zone
1294	231	1	**Notodden** — Norway
1294	231	0,3	**Lista** — Norway
1303	230	20	**Halle** — Germany: U. S. S. R. Zone
1303	230	50	**Bologna** — Italy
1312	228	100	**Naples I** — Italy
1312	228	2,5	**Malmoe** — Sweden
1312	228	0,25	**Karlstad** — Sweden
1312	228	0,25	**Norrköping** — Sweden
1312	228	0,25	**Trollhättan** — Sweden
1312	228	0,5	**Uppsala** — Sweden
1312	228	10	**Vienna II** — Austria: U. S. S. R. Z.
1321	227	20	**Clermont** — France
1321	227	4	**Lisbon (Renascenca)** — Portugal
1321	227	0,6	**Magyarovar** — Hungary
1330	225	2,5	**Flensburg** — Germany: British Z.
1330	225	20	**Hannover** — Germany: British Z.
1330	225	5	**Osnabrück** — Germany: Br. Zone
1330	225	5	**Berlin** — Germany: British Zone
1330	225	0,25	**Volos** — Greece
1339	224	10	**Lodz** — Poland
1339	224	20	**Marseilles II** — France
1339	224	20	**Limoges II** — France
1339	224	20	**Toulouse II** — France
1339	224	10	**Nancy II** — France
1339	224	25	**Lyon II Dardilly** — France
1348	222	2	**Dublin** — Eire
1348	222	1	**Porto (Renascenca)** — Portugal
1348	222	5	**San Remo** — Italy
1348	222	1	**Bari II** — Italy
1348	222	1	**Verona** — Italy
1348	222	5	**Jihlava** — Czechslovakia
1348	222	0,2	**Kiruna** — Sweden
1348	222	0,4	**Saeffle** — Sweden
1348	222	0,2	**Varberg** — Sweden
1348	222	0,2	**Oerebro** — Sweden
1348	222	1	**Vatican City** — Vatican State
1348	222	1	**Montelimar** — France
1348	222	1	**Poitiers** — France
1349	222	10	**Cairo II** — Egypt
1357	221	0,25	**Rjukan, Mosjöen** — Norway
1357	221	10	**Genoa I** — Italy
1357	221	20	**Turin II** — Italy
1357	221	10	**Milan II** — Italy
1366	219	5	**Ceské Budéjovice** — Czechosl.
1366	219	20	**Herford** — Germany: B. F. N.
1366	219	10	**Nantes** — France
1375	218	0.5	**Basel** — Switzerland
1375	218	0,1	**Savière** — Switzerland
1377	218	0,2	**Cetinje** — Yugoslavia
1384	216	1	**Szczecin (Stettin)** — Poland
1384	216	20	**Clevedon** — Gt. Brit.
1384	216	10	**Bartley** — Gt. Brit.
1393	215	10	**Montpellier I** — France
1393	215	20	**Lille II** — France
1393	215	20	**Dijon II** — France
1393	215	15	**Grenoble I** — France
1393	215	25	**Nice II** — France
1393	215	10	**Strassbourg II** — France
1393	215	24	**Rennes II** — France
1402	214	2	**Stara Zagora** — Bulgaria
1402	214	1	**Umeå** — Sweden
1402	214	0,5	**Eskilstuna** — Sweden
1402	214	0,5	**Gävle** — Sweden
1402	214	1	**Hudiksvall** — Sweden
1402	214	0,5	**Haelsingborg** — Sweden
1402	214	0,07	**Porjus** — Sweden
1402	214	0,5	**Visby** — Sweden
1402	214	0,5	**Oernskoeldsvik** — Sweden
1411	213	10	**Bayreuth** — Germany: A. F. N.
1411	212	10	**Porto** — Portugal
1411	212	0.05	**Uddevalla** — Sweden
1420	211	0,4	**Berlin** — Germany: A. F. N.
1420	211	10	**Helsinki I** — Finland
1429	209	1	**Pori (Bjoerneborg)** — Finland
1429	209	5	**Ancona** — Italy
1429	209	2,5	**Bremen** — Germany: A. F. N.
1429	209	2	**Sorbonne** — France
1429	209	1	**Coimbra** — Portugal
1429	209	0,05	**Saint Briéuc** — France
1429	209	1	**Clermont-Ferrand II** — France
1429	209	15	**Vienna** — Austria: U. S. Zone
1429	209	0,2	**Asturias** — Spain
1429	209	1	**Oran** — Algeria
1438	208	0,75	**Constantin II** — Algeria
1428	208	1,25	**Miskolc** — Hungaria
1438	208	0,4	**Zajecas** — Yugoslavia
1438	208	0,1	**Mallorca** — Spain
1447	207	9	**Castilla EAJ27** — Spain
1447	207	0,5	**Common wave** — Spain
1447	207	0,5	**Borås** — Sweden
1447	207	0,2	**Kalmar** — Sweden
1450	207	0,8	**Dubrovnik** — Yugoslavia
1454	206	2	**Kosice-Mesto** — Czechoslovakia
1456	206	20	**Rouen-Louvetot** — France
1456	206	1	**Perpignan** — France
1465	205	1,25	**Pecs** — Hungary
1465	204	0,2	**Anvers** — Belgium
1465	204	0,2	**Ghent** — Belgium
1474	203		**Synchroniced low power st.** Gt. B.
1483	202	0,2	**Courtrai** — Belgium
1483	202	0,2	**Limburg** — Belgium
1483	202	0,2	**Elches** — Spain
1492	201	0,3	**Namur** — Belgium
1492	201	0,25	**Hainaut** — Belgium
1492	201	0,2	**Halmstad** — Sweden
1492	201	5	**Messina** — Italy
1492	201	5	**Venice II** — Italy
1492	201	0,4	**Syncronised low power St.** — Spain
1492	201	1	**Tampere (Tammerfors)** — Finland
1500	200	0,2	**Syncronised low power St.** — Spain
1500	200	0,25	**Bremerhaven** — Germany: A. F. N.
1500	200	1	**Pietersaari (Jakobstad)** — Finland
1500	200	0,2	**Kristinehamn** — Sweden
1500	200	1	**Tirana** — Albania
1500	200	0,2	**Tammisaari (Ekenäs)** — Finland
1515	198	0,2	**Joenkoeping** — Sweden
1522	197	10	**Vaasa (Vasa)** — Finland
1530	196	0,5	**Karlskrona** — Sweden
1547	194	0,2	**Low power st.** — Portugal

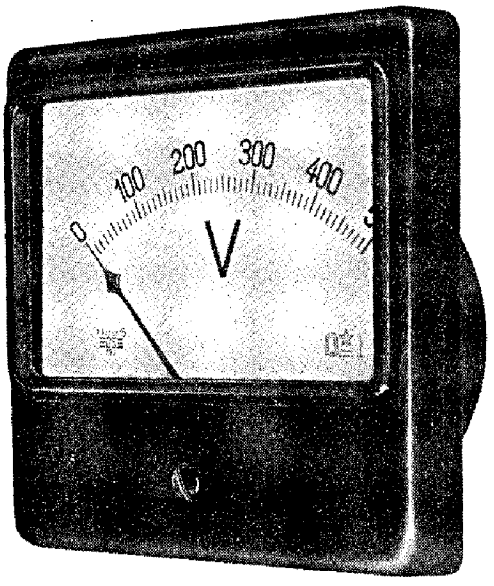
ELECTRICAL MEASURING INSTRUMENTS



The Universal Instrument **TOVAMETER** is the only universal instrument possessing common linear graduation for direct current and alternating current.

This has been achieved by a device for which patent has been obtained and which in the highest degree facilitates the readings, prevents mistakes and renders superfluous special (coloured) marks.

It offers futhermore the advantage that all readings of alternating currents can be done right from zero.
29 measuring ranges for: Volt, mA, and Amp. = ∞ further for ohm, decibel and capacity. Demand our English lists for particulars. For further ranges separate shunts and transformers can be delivered.



SMALL PANEL TYPES
Diameters: 63-83 and 100 mm.

BIG PANEL TYPES
Diameters: 130-150 and 225 mm.

SMALL SQUARE TYPES
frame Dim.: 90 × 90 mm with Tubus Diam.: 65 mm.

BIG SQUARE TYPES
frame Dim.: 145 × 145 mm with Tubus Diam.: 132 mm.

PORTABLE LABORATORY TYPES

MEASURING-BRIDGES
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SHORTWAVE STATIONS OF THE WORLD

kc/s	Metres		kW	Station
2830	106.00	HC5FK	0,2	**Quito** — Ecuador
2880	104.2	GRC	50,0	**London** — Gt. Britain
3040	98.68	YDA	3	**Bandoeng** — Java
3240	92.59	YDI	0,25	**Soerabaia** — Java
3270	91.75	YDL	0,35	**Padang** — Sumatra
3310	90.63	YV1RO	0,63	**Trujillo** — Venezuela
3320	90.36	ZJM3	7,5	**Sharq al Adna** — Cyprus
3320	90.36		1,5	**Gwelo** — South Rhodesia
3330	90.09	YV6RK	1	**El Tigre** — Venezuela
3335	89.92		5	**Hyderabad** — India
3341	89.81	YV3RC	0,2	**Carova** — Venezuela
3350	89.58	YV5RS	1	**Caracas** — Venezuela
3370	89.02	YV1RT	0,46	**Maracaibo** — Venezuela
3380	88.76	YV5RY	7,5	**Caracas** — Venezuela
3380	88.76	YDR	0,25	**Ambon** — Moluccas
3390	88.50	OQ2AC	0,25	**Elisabethville** — Belg. C.
3395	88.30		1	**Colombo** — Ceylon
3400	88.24	YV5RW	0,75	**Caracas** — Venezuela
3420	87.72	YV2RC	0,3	**Merida** — Venezuela
3430	87.48	YV4RK	0,3	**Maracay** — Venezuela
3440	87.21	YV1RU	0,7	**Maracaibo** — Venezuela
3450	86.97		5	**Johannesb. III** — S. Afr.
3450	86.96	YV6RH	1	**Barcelona** — Venezuela
3460	86.71	YV4RP	0,7	**Valencia** — Venezuela
3470	86.40	YV8RB	0,2	**Maturin** — Venezuela
3480	86.21	YV4RQ	0,6	**Puerto Cabellero** — Venez
3480	86.21	ZQI	1,2	**Kingston** — Jamaica
3490	85.96	YV3RS	0,65	**Barquisimeto** — Venez.
3490	85.96	CR7AB	0,6	**Lourenco Marques**—Moz.
3498	8576	CR7IC	0,1	**Beira** — Mozambique
3505	85.95	JVW-2	15	**Kawachi** — Japan
3505	85.59	YV5RX	1,75	**Caracas** — Venezuela
3515	85.34	YV6RC	1	**Barcelona** — Venezuela
3530	84.97	YV5RS	0,95	**Caracas** — Venezuela
3550	84.48	YV2RM	1	**San Christobal** — Venez.
3570	84.07	YV5RD	1	**Caracas** — Venezuela
3590	83.53	YV7RB	1	**Cumana** — Venezuela
3620	82.87	YV4RM	0,2	**Maracay** — Venezuela
3658	82.01	ZEA	1	**Salisbury** — S. Rhodesia
3800	78.95	ZEB	1	**Bulawayo** — S. Rhodesia
3914	76.60	ZQP	0,5	**Lusaka** — North Rhodesia
3800	78.95			**Kol-Ha-Negev** — Israel
4000	75.00	HC5EN	0,2	**Quito** — Ecuador
4040	74.26	CSX2	1	**Ponta Delgada — Azores**
4169	71.90	TGOA	1	**Guatemaly City** — Guater
4200	71.43	HC5AO	0,2	**Cuenca** — Ecuador
4202	71.39	HC5EH	0,25	**Tomebamba** — Ecuador
4290	69.63	COX7	5	**Havana** — Cuba
4370	68.65	FIQA	0,5	**Tananarive** — Madagascar
4370	68.65	YD12	3	**Soerabaja** — Java
4373	68.60		0,2	**Johannesburg V** — S. Afr.
4551	65.92	FIQA	0,5	**Tananarive** — Madagascar
4560	65.79	HC4FF	0,15	**Esmeralda** — Ecuador
4650	64.51	HC2AK	7	**Guayaquil** — Ecuador
4655	64.45	HC2AJ	1	**Guayaquil** — Ecuador
4665	64.52	HHCA	0,2	**Port of Prince** — Haiti
4700	63.83	HC5LC	0,25	**Riobamba** — Ecuador
4700	63.83	HC2GJ	0,25	**Quito** — Ecuador
4705	63.76	HC6BT	0,2	**Ambato** — Ecuador
4712	63.71	HC2ET	0,25	**Guayaquil** — Ecuador
4715	63.63	HC5BU	0,35	**Cuenca** — Ecuador
4725	63.45	YV5RY	1	**Caracas** — Venezuela
4738	63.52	HC1IM	0,20	**Ibarra** — Ecuador
4750	63.16	HC1BF	0,2	**Quito** — Ecuador
4750	63.16	YV1RV	0,2	**Maracaibo** — Venezuela
4760	63.03	YV5RV	0,22	**La Guaira** — Venezuela
4765	62.96	HC4FA	0,2	**Portoviejo** — Ecuador
4770	62.89	YV1RY	0,21	**Coro** — Venezuela
4780	62.76	HC1PM	0,25	**Quito** — Ecuador
4780	62.76	HJGB	2,5	**Bucaramanga** — Colom.
4780	62.76	HUB	0,3	**San Salvador** — Salvador
4780	62.76	YV4RO	0,2	**Valencia** — Venezuela
4785	62.69	HJAN	5	**Barranquilla** — Colombia
4790	62.63	YV6RU	0,6	**Ciudad Bolivar** — Venez.
4795	62.57	HJDX	0,75	**Medellin** — Colombia
4800	62.50		0,2	**St. Denis** — Reunion
4800	62.50	YV1RX	2	**Maracaibo** — Venezuela
4800	62.50		5	**Johannesb. IV** — S. Africa
4805	62.45	HJDU	0,25	**Medellin** — Colombia
4810	62.37	YV1RL	0,2	**Maracaibo** — Venezuela
4815	62.30	HJBB	0,75	**Cucuta** — Colombia
4820	62.24	YV9RA	1	**Caracas** — Venezuela
4820	62.25	CE482	5	**Santiago** — Chile
4820	62.24	XEJC	0,2	**Guadalajara** — Mexico
4825	62.18		10	**Singapore** — Malaya
4825	62.18	PRI4	0,5	**Parnaiba** — Brazil
4825	62.18	HJED	1	**Cali** — Colombia
4830	62.11	YV2RN	1,3	**San Christobal** — Venez.
4835	62.05	HJKE	2,5	**Bogota** — Columbia
4840	61.98	YD14	0,8	**Soerabaia** — Java
4840	62.00	YV1RZ	1,5	**Valera** — Venezuela
4840	61.98	VUC2	10	**Calcutta** — India
4847	61.89	HJGF	1	**Bogota** — Colombia
4855	61.79	HJCA	1	**Bogota** — Colombia
4855	61.75	CR7BV	7,5	**Lourenzo Marques**—Moz.
4855	61.79	YDK	0,25	**Palembang** — Sumatra
4860	61.73		1	**Srinagar** — India
4860	61.73	YV3RM	0,3	**Barquisimeto** — Venezuela
4860	61.73	JKE2	5	**Yamata** — Japan
4865	61.66	PRC5	2	**Belem** — Brazil
4870	61.60	YDD2	0,3	**Batavia** — Java
4870	61.60	HCIBT	0,5	**Quito** — Ecuador
4874	61.55	HJFH	0,75	**Armenia** — Colombia
4878	61.50	ZID	0,2	**Pietermaritzb. II** — S. Afr.
4879	61.48	YV5RU	7,5	**Caracas** — Venezuela
4880	61.48	VUB2	10	**Bombay** — India
4885	61.41	HJDP	5	**Medellin** — Colombia
4890	61.35	YV5RM	5	**Caracas** — Venezuela
4895	61.28	PRF6	0,25	**Manaos** — Brazil
4895	61.28	HJCH	0,75	**Bogota** — Colombia
4895	61.28		3	**Johannesb. III** — S. Africa
4900	61.23	ZOH	11	**Colombo** — Ceylon
4903	61.20	HJAG	1	**Baranquilla** — Colombia
4907	61.13	YV1RY	0,2	**Coro** — Venezuela
4910	61.00	YDB2	0,3	**Batavia** — Java
4910	61.10	JKF	5	**Nazaki** — Japan
4915	61.04	ZOY	5	**Accra** —Gold Coast
4915	61.04	YV5RN	5	**Caracas** — Venezuela
				60 METRE BAND
4920	60.98	VUM2	10	**Madras** — India
4925	60.91	CR7BU	7,5	**Lourenzo Marques**—Moz.
4930	60.90	JKG-2	5	**Kawachi** — Japan
4940	60.73	YV3RN	0,3	**Caracas** — Venezuela
4945	60.61	YDA3	0,15	**Bandoeng** — Java
4945	60.66	HJCW	0,75	**Bogota** — Colombia
4950	60.60	ZQI	1,2	**Kingston** — Jamaica
4955	60.54	HJCQ	2,5	**Bogota** — Colombia
4960	60.48	VUD2	10	**Delhi** — India
4965	60.42	HJAE	0,75	**Cartagena** — Colombia
4985	60.91	HCQRX	0,3	**Quito** — Ecuador
4990	60.12	YV3RS	4	**Barquisemeto** — Venez.
5020	59.75	YVKC	10	**Caracas** — Venezuela
5030	59.64	YFA	0,25	**Macassar** — Celebes
5050	59.40	YV6RD	1	**Caracas** — Venezuela
5057	59.32	YV5RD	2,5	**Caracas** — Venezuela

kc/s	Metres		kW	Station
5187	57.83	YSCP	1	**S. Salvador** — El Salvad.
5620	53.38	OAX2A	0,25	**Trujillo** — Peru
5660	53.00	HHCN	0.2	**Port-au-Prince** — Haiti
5750	52.18	PZH5	0,30	**Paramaribo** — Surinam
5758	52.10	YNJAT	0,6	**Managua** — Nicaragua
5800	51.72	CE8AA	5	**Santiago** — Chile
5875	51.06	TIGPH	1	**San José** — Costa Rica
5877	51.05	HRN	0,75	**Tegucigalpa** — Honduras
5880	51.00	ZRK	5	**Cape Town III** — S. Afr.
5889	50.94	OAX4Z	15	**Lima** — Peru
5894	50.89	OAX4Z	15	**Lima** — Peru
5900	50.85	LRM	10	**Buenos Aires** — Argentina
5900	50.85	ZNB	0,2	**Mafeking** — S. Africa
5907	50.79	OAX4V	0,5	**Lima** — Peru
5918	50.69	XGOA	7.5	**Nanking** — China
5940	50.51	HRA	0,5	**Tegucigalpa** — Honduras
5942	50.49	OX1	1	**Godthaab** — Greenland
5948	50.44	HH2S	0,3	**Port-au-Prince** — Haiti
5970	50.26	VONF	0,3	**St. Johns** — Newfoundl.
5970	50.26	HI2T	0,5	**Ciudad Trujillo** — Dom.
5970	50.26	HVJ	10	**Vatican City** —
5970	50.26	HC1QRX	0,25	**Quito** — Ecuador
5973	50.24	CP5	0,25	**La Paz** — Bolivia
5980	50.16		25	**Andorra** —
5984	50.14	OAX-4P	0,25	**Huancayo** — Peru
5985	50.13	LRS1	5	**Buenos Aires** — Arg.
5990	50.09	HCJB	1	**Quito** — Ecuador
5990	50.09		0,075	**Bucarest** — Roumania
6000	50.00	YSW	0,2	**Santa Ana** — Salvador
6000	50.00	HS8PD	2,5	**Bangkok** — Siam
6000	50.00		0,5	**Damascus** — Syria
6000	50.00	PRK5	5	**Belo Horizonte** — Brazil
6000	50.00	ZFY	1	**Georgetown** — Br. Guiana
6000	50.00		0,5	**Vorarlberg** — Austria Fr.
6000	50.00	OAX4C	0,2	**Lima** — Peru
6000	50.00	HHYM	0,2	**Port au Prince** — Haiti
6000	50.00		0,3	**Noumea** — New Caledonia
6000	50.00	HI9B	0,2	**Ciudad Trujillo** — Domin.
6000	50.00	KZMB	1	**Manila** — Philippines
6001	49.99	OAX2A	0,25	**Lima** — Peru
		49 METRE BAND		
6005	49.96	HP5K	0,8	**Colon** — Rep. Panama
6005	49.96	HVJ	25	**Vatican City** —
6006	49.95		2,5	**Rabat** — Marocco
6007	49.95	ZRH	5	**Johannesburg III** — S. A.
6010	49.92	COCO	5	**Havana** — Cuba
6010	49.92	VUD3	20	**Delhi** — India
6010	49.92	CJCX	1	**Sydney** — Nova Scotia
6010	49.92	CE6O1	5	**Antofagasta** — Chile
6010	49.92	OLR2A	30	**Podebrady** — Czechosl.
6010	49.92	GRB	50	**London** — Gt. Britain
6010	49.92	XEOJ	2,5	**Mexico City** — Mexico
6010	49.92	OQ2RC	0,25	**Leopoldville** — Belg. Cong
6015	49.88	HC4FX	0,25	**Manta** — Ecuador
6015	49.88	JKD	0,3	**Nazaki** — Japan
6016	49.87	PRA8	5	**Recife** — Brazil
6017	49.86	YNMM	0,3	**Managua** — Nicaragua
6018	49.85	HJCX	0,75	**Bogota** — Colombia
6020	49.83	XEUW	0,25	**Vera Cruz** — Mexico
6020	49.83		100	**Kiev** — U. S. S. R.
6020	49.83	OAX-4Q	1	**Lima** — Peru
6020	49.83	CP41	0,25	**La Paz** — Bolivia
6024	49.80	FZI	1,5	**Brazzaville** — Fr. Eq. A.
6025	49.79	HI1J	0,1	**S. Pedro de Macoris** — Dom.
6025	49.79		10	**Kuala Lumpur** — Malaya
6025	49.79	PGD	5	**Huizen** — Holland
6026	49.78	CP37	0,25	**Oruro** — Bolivia
6030	49.75	OLR2B	30	**Podebrady** — Czechosl.
6030	49.75	XEKW	0,5	**Morelia** — Mexico
6030	49.75	HP5B	0,8	**Panama City** — Panama
6030	49.75	CFVP	0,2	**Calgary** — Canada
6030	49.75	HVJ	25	**Vatican City** —
6035	49.71		7.5	**Rangoon** — Burma
6035	49.71		25	**Monte Carlo** — Monaco
6035	49.71	GWS	50	**London** — Gt. Britain
6035	49.71	OAX6B	0,2	**Arequipa** — Peru
6035	49.71	CXA30	1	**Montevideo** — Uruguay
6040	49.67	COBF	1	**Havana** — Cuba
6040	49.67	WRUS	50	**Boston** — U. S. A.
6042	49.65	OAX6A	0,2	**Arequipa** — Peru
6045	49.63	XETW	0,1	**Tampico** — Mexico
6048	49.61		1,5	**Hanoi** — French Indochin
6050	49.59	HI1N	0,7	**Ciudad Trujillo** — Domin.
6050	49.59	HP5F	0,3	**Colon** — Panama
6050	49.59	GSA	50	**London** — Gt. Britain
6054	49.56	XLRA	1,0	**Hankow** — China
6054	49.55	HJEX	2,5	**Cali** — Colombia
6055	49.55	CXAI4	1	**Colonia** — Uruguay
6055	49.55	HJFA	0,75	**Bogota** — Columbia
6060	49.50	KNBA	50	**Dixon** — U. S. A.
6060	49.50		0,5	**Balboa** — Panama
6063	49.48	FIQA	5	**Tananarive** — Madagasc.
6065	49.46	VU7MC	5	**Akashvani** — India
6065	4946	LRS1	5	**Buenos Aires** — Argentina
6065	49.46	HC2FQ	0,3	**Guayaquill** — Ecuador
6065	49.46	CE604	5	**Santiago** — Chile
6065	49.46	SBO	12	**Motala** — Sweden
6067	49.45	EA9AH	20	**Tetuan** — Sp. Morocco
6070	49.42		5	**Berlin** — Germany:
6070	49.42		10	**Petropavlovsk** — U.S.S.R.
6070	49.42	GRR	50	**London** — Gt. Britain
6070	49.42	CFRX	1	**Toronto** — Canada
6075	49.38		0,25	**Karachi** — India
6075	49.38	CXA3	2,5	**Montevideo** — Uruguay
6075	49.38		1	**Colombo** — Ceylon
6078	49.33	HI-1X	0,7	**Ciudad Trujillo** — Dom.
6080	49.32	CKFX	0,1	**Vancouver** — Canada
6080	49.34		85	**Munich** — Germ. US. Z.
6080	49.34	ZL7	10	**Wellington** — New Zeal.
6080	49.34	WLWO	50	**Cincinnati** — U. S. A.
6080	49.34	HI-3X	0,1	**Trujillo** — Dominicana
6080	49.34		50	**Berlin RIAS** — US. Z.
6085	49.30	ZYK3	15	**Recife** — Brazil
6085	49.30		50	**Busto Arsizio** — Italy
6090	49.26	LSX	0,3	**Cordoba** — Arg.
6090	49.26	CKOB	50	**Sackville** — Canada
6090	49.26	GWM	50	**London** — Gt. Britain
6090	49.26		5	**Luxembourg**
6090	49.26	CBFW	0,2	**Montreal** — Canada
6092	49.25			**Tabriz** — Iran
6095	49.22	ZYB7	25	**Sao Paulo** — Brazil
6095	49.22	OAX4H	1	**Lima** — Peru
6100	49.18	KZBU	0,25	**Cebu** — Philippines
6100	49.18	WLKS	1	**Kure (A.F.R.S.)** — Japan
6100	49.18	CP11	0,25	**La Paz** — Bolivia
6105	49.14	HI1Z	0,2	**Ciudad Trujillo** — Dom.
6105	49.14	ZYN6	5	**Fortaleza** — Brazil
6110	49.10	HJFB	1	**Manizales** — Colombia
6110	49.10	GSL	50	**London** — Gt. Britain
6110	49.10	CP2	1	**La Paz** — Bolivia
6115	49.06	HJFK	2,5	**Pereira** — Colombia
6115	49.06	OLR2C	30	**Podebrady** — Czechosl.
6115	49.06		25	**Elmshorn** — Germ. Br. Z.
6120	49.02	CP15	0,25	**La Paz** — Bolivia
6120	49.02	LRX1	10	**Buenos Aires** — Arg.
6120	49.02		1,5	**Umtali** — S. Rhodesia
6120	49.02	OIX7	10	**Helsinki II** — Finland
6122	49.00	HP5H	0,5	**Panama City** — Panama
6125	4898	HRQ	0,5	**S. Pedro Sula** — Hond.

kc/s	Metres		kW	Station
6125	48.98	GWA	50	**London** — Gt. Britain
6125	48.98	CXA4	10	**Montevideo** — Uruguay
6128	48.96	OAX-7A	1	**Cusco** — Peru
6130	48.94	LKJ	10	**Tromsø** — Norway
6130	48.94	CP22	0,25	**La Paz** — Bolivia
6130	48.94			**Moscow** — U. S. S. R.
6130	48.94	XUPB	0,5	**Amoy** — China
6130	48.94	CHNX	0,5	**Halifax** — Canada
6130	48.94	COCD	1	**Havana** — Cuba
6130	48.94	XEUZ	0,1	**Mexico City** — Mexico
6130	48.94	HC2FB	0,25	**Guayaquil** — Ecuador
6135	48.90	ZIM4	7,5	**Sharq al Adna** — Cyprus
6135	48.90		10	**Singapore** — Malaya
6137	4888	FIQA	1,2	**Tananarive** — Madagascar
6140	48.86	OAX8C	0,3	**Iquitos** — Peru
6140	48.86	XGOY	35	**Chungking** — China
6140	48.86	HI1R	0,2	**San Christobal** — Dom.
6140	48.86	KZRC	0,25	**Cebu** — Philippines
6145	48.82	HJDE	5	**Medellin** — Colombia
6145	48.82	LRT	10	**Cordoba** — Argentina
6147	48.80	HI1G	0,1	**Trujillo** — Dominicana
6150	48.78	VLR2	2	**Melbourne** — Australia
6150	48.78	YV1RG	4	**Cabimas** — Venezuela
6150	48.78	YSPB	0,35	**S. Salvador** — Salvador
6150	48.78	GRW	50	**London** — Gt. Britain
6150	48.78	CP12	0,25	**Sucre** — Bolivia
6150	48.78	CE615	5	**Valparaiso** — Chile
6150	48.78	OAXIA	0,25	**Lima** — Peru
6153	48.75	TIRH	0,25	**San José** — Costa Rica
6155	48.74	XEPP	1	**Mexico City** — Mexico
6155	48.74		0,3	**Vienna I** — Austria USSR
6155	48.74	CS2WD	5	**Lisbon** — Portugal
6155	48.74	CXA13	10	**Montevideo** — Uruguay
6160	48.70	HJCD	10	**Bogota** — Colombia
6160	48.70	CBRX	0,15	**Vancouver** — Canada
6160	48.70		1	**Munich** — Germany US. Z.
6165	48.66	TILS	1	**San José** — Costa Rica
6165	48.66	HHCM	0,1	**Port-au-Prince** — Haiti
6165	48.66	GWK	50	**London** — Gt. Britain
6165	48.66	HER3	100	**Schwarzenburg** — Switz.
6165	48.66		12	**Saigon** — Fr. Indochina
6170	48.62	ZJM5	7,5	**Sharq al Adna** — Cyprus
6170	48.62	YDA2	0,25	**Bandoeng** — Java
6170	48.62		85	**Munich** — Germany US. Z.
6170	48.62	OAX4B	0,35	**Cerro de Pasco** — Peru
6170	48.62	KZFM	5	**Manila** — Philippines
6170	48.62	OAX5E	0,3	**Chinca** — Peru
6170	48.62	CXA21	1	**Montevideo** — Uruguay
6170	48.62	OLR2D	30	**Podebrady** — Czechosl.
6170	48.62	OAX6G	0,2	**Iquitos** — Peru
6175	48.58	XEXA	1	**Mexico City** — Mexico
6175	48.58		100	**Allouis** — France
6175	48.58	HI-9T	0,1	**Puerto Plata** — Domin.
6175	48.58	YSHQ	1,0	**San Salvador** — Salvador
6175	48.58	HOB	1	**Panama City** — Panama
6180	48.54	HC1FM	0,25	**Ibarra** — Ecuador
6180	48.54		10	**Stuttgart**—Germany US Z.
6180	48.54	TIRCC	0,3	**San José** — Costa Rica
6180	48.54	GRO	50	**London** — Gt. Britain
6180	48.54	LRM	10	**Mendoza** — Argentina
6185	48.50	LLI	10	**Frederiksstad** — Norway
6187	48.48	HIL	0,06	**Santiago** — Dominicana
6190	48.47		1	**Cambodge** — Fr. Indoch.
6190	48.47	HI9T	0,1	**Puerto Plata** — Domin.
6190	48.47	HVJ	25	**Vatican City** —
6190	48.47		1	**Frankfurt** — Germany:
6195	48.43	GRN	50	**London** — Gt. Britain
6196	48.42	HI1A	0,08	**Santiago** — Dominicana
6197	48.41	OAX1B	0,4	**Piura** — Peru
6200	48.39	HJCT	10	**Bogota** — Colombia
6200	48.39		100	**Allouis** — France
6200	48.39	CP5	0,5	**La Paz** — Bolivia
6205	48.35	YV6RD		**Barcelona** — Venezuela
6210	48.31		5	**Romania Liberia**—Roum.
6210	48.31	HC1AC	0,5	**Quito** — Ecuador
6210	48.31		5	**Hyderabad** — India
6215	48.21	ZRB	1	**Tangier** — Tangier
6215	48.25	SP13	7,5	**Warsaw III** — Poland
6220	48.23	OAX4L	0,25	**Lima,** — Peru
6220	48.23	CE622	5	**Santiago de Chile** — Chile
6225	48.19	HJBF	4,5	**Manizales** — Colombia
6230	48.16	TGJA	1	**Guatemala City**—Guatem.
6235	48.12	HRD2	0,2	**La Ceiba** — Honduras
6240	48.08	HCJB	1,0	**Quito** — Ecuador
6240	48.08	HJCF	0,75	**Bogota** — Colombia
6250	48.00	YSUA	1	**Cincuenta** — Salvador
6257	47.95		3	**Korca** — Albania
6265	47.88	YSR	1,0	**San Salvador** —
6274	47.81	ZPA1	3	**Asuncion** — Paraguay
6295	47.66	TGLA	0,2	**Retalhulen** — Guatemala
6295	47.65	OTM1	3	**Leopoldville** — B. Congo
6300	47.62	YNAS	0,1	**Managua** — Nicaragua
6315	47.50	OAX4M	0,25	**Lima** — Peru
6321	47.46		1	**Baden-Baden** — Germany
6327	47.43	COCW	1	**Havana** — Cuba
6330	47.40	CMHW	1	**Havana** — Cuba
6333	47.38	OAX6E	03,	**Arequipa** — Peru
6335	47.35	TGTA	1	**Guatemala City**—Guatem.
6350	47.24	HRP1	0,1	**S. Pedro** — Honduras
6374	47.06	CSX	0,5	**Barcarene** — Portugal
6383	47.00	HI9B	0,2	**Santiago** — Dominicana
6400	46.88	HC2RL	0,2	**Guayaquill** — Ecuador
6401	46.85	TGQA	0,3	**Guatemala City**—Guatem.
6404	46.85	XPRA	1,0	**Kunming** — China
6410	46.80	OAX4G	0,25	**Lima** — Peru
6432	46.65	HI1R	0,2	**San Cristobal** — Domin.
6440	46.58	TGWB	1	**Guatemala City**—Guatem.
6450	46.51	YNZZ	0,4	**Mangua** — Nicaragua
6450	46.51	YNWW	0,4	**Mangua** — Nicaragua
6450	46.51	COHI	5	**Havana** — Cuba
6497	46.19	TGOA	0,2	**Guatemala City**—Guatem.
6500	46.15			**Haifa** — Israel
6510	46.08	CP40	0,25	**La Paz** — Bolivia
6550	45.80	YNBH	0,1	**Managua** — Nicaragua
6620	45.32	TG2	0,3	**Guatemala City**—Guatem.
6630	45.25	HIT	0,1	**Trujillo** — Dominicana
6668	44.90	HC2RL	0,25	**Guayaquil** — Ecuador
6690	44.84			**Moscow** — U. S. S. R.
6700	44.78	OAX1A	0,25	**Chiclayo** — Peru
6700	44.78	TIEP	1	**San José** — Costa Rica
6710	44.71	YNCMO	0,1	**Managua** — Nicaragua
6715	44.67	CP22	0,25	**La Paz** — Bolivia
6730	44.59	HI3C	0,03	**Trujillo** — Dominicana
6760	44.38	YNVP	0,1	**Managua** — Nicaragua
6770	44.31	CP49	0,5	**La Paz** — Bolivia
6770	44.31		7,5	**Singapore** — Malaya
6785	44.21	HI2A	0,25	**Santiago** — Dominicana
6835	43.89			**Tel Aviv** — Israel
6845	43.83			**Khoramabad** — Iran
6850	43.81	YNOW	0,6	**Managua** — Nicaragua
6917	43.37	FZK6	1,2	**Dakar** — Senegal
6950	43.16	YNEQ	0,2	**Managua** — Nicaragua
6950	43.17			**Tel Aviv** — Israel
6990	4292			**Tiberias** — Israel

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6980	42.98	FO8AA	0,1	**Papeete** — Tahiti
7000	42.86	XPPA	10	**Kweichow** — China
7006	42.83	JKA	5	**Nazaki** — Japan
7006	42.83	FET	0,2	**Valladolid** — Spain

kc/s	Metres		kW	Station
7012	42.79	EAJ9	0,2	**Malaga** — Spain
7015	42.76	CSX2	1	**Ponta Delgada** — Acores
7022	42.72	EAJ9	0,2	**Malaga** — Spain
7037	42.63	EAJ3	3,0	**Mediterraneo** — Spain
7042	42.60	FET15	0,2	**Cordoba** — Spain
7054	42.54	CR6RF	0,15	**Benguela** — Angola
7061	42.49	HNA	0,5	**Baghdad** — Iraq
7070	42.43		0,2	**Manama** — Bahrein Isl.
7075	42.40	GRS	50	**London** — Gt. Britain
7080	42.37		1	**Radio Africa** — Tangier
7092	42.30	HNA	1	**Baghdad** — Iraq
7100	42.25	EAJ7	0,2	**Cuenca** — Spain
7120	42.13	GRM	50	**London** — Gt. Britain
7120	42.13	VQ6MY	1	**Hargeisa** — Br. Somaliland
7131	42.07	FET22	0,2	**Asturias** — Spain
7141	42.02	EDV10	0,1	**Madrid S. E. U.** — Spain
7143	42.00	V3USE	0,05	**Port Louis** — Mauritius
7150	41.96	GRT	50	**London** — Gt. Britain
7149	41.96	OQ2AB	0,15	**Elisabethville** — Belg. C.
7152	41.95	CR6RD	0,3	**Lobito** — Angola
7153	41.94	XGOY	10	**Chungking** — China
7165	41.88	HI8Z	0,2	**Santiago** — Dominicana
7165	41.87	CR6RI	0,05	**Malange** — Angola
7165	41.87	CR6RE	0,1	**Nova Lisboa** — Angola
7170	41.84		0,2	**St. Denis** — Reunion
7175	41.80		0,25	**Vienna II** — Austria
7177	41.80	CR6AA	1	**Lobito** — Angola
7185	41.75	GRK	50	**London** — Gt. Britain
7190	41.72			**Moscow** — U. S. S. R.
7191	41.74	EDV10	1	**S. E. U.** — Spain
7199	41.68	CR7BI	0,3	**Beira** — Mozambique
7200	41.61	OQ2AC	0,25	**Elisabethville** — Belg. C.
7200	41.66		10	**Singapore** — Malaya
7200	41.67			**Moscow** — U. S. S. R.
7200	41.66	HC2CM	0,2	**Guayaquill** — Ecuador
7205	41.64		1	**Huée** — Fr. Indochina
7205	41.64	HI9U	0,1	**Puerto Plata** — Domin.
7210	41.61	GVL	50	**London** — Gt. Britain
7210	41.61	VUD11	20	**Delhi** — India
7210	41.61	VUC2	10	**Calcutta** — India
7210	41.61	FZK6	0,5	**Dakar** — Senegal
7210	41.61	HEI3	25	**Schwarzenburg** — Switz.
7210	41.61	YDP2	0,35	**Medan** — Sumatra
7215	41.58	YSI	0,1	**San Salvador** — Salvador
7220	41.55		1	**Lakatamia** — Cyprus
7220	41.55		0,4	**Salzburg** — Austria US Z.
7220	41.55	ZQP	5	**Lusaka** — N. Rhodesia
7223	41.53	XURA	3	**Taiwan** — China
7230	41.49	GSW	50	**London** — Gt. Britain
7240	41.44	EA9AH	0,1	**Tetuan** — Sp. Marocco
7240	41.44	LLR	5	**Oslo** — Norway
7240	41.44	VUB2	10	**Bombay** — India
7240	41.44		100	**Realtort** — France
7250	41.38	GWI	50	**London** — Gt. Britain
7250	41.38	HVJ	25	**Vatican City** —
7250	41.38		85	**Munich** — Germany US Z.
7250	41.38		1	**Rome** — Italy
7250	41.38	PJC2	3	**Willemstad** — Curacao
7257	41.34	JKC	5	**Yamata** — Japan
7260	41.32	GSU	50	**London** — Gt. Britain
7260	41.32	VUM2	10	**Madras** — India
7267	41.28	EA8AB	0,5	**S. Cruz de Tenerife** C. I.
7270	41.27	YSO	1	**San Salvador** — Salvador
7270	41.26			**Moscow** — U. S. S. R.
7270	41.27	YDB3	1	**Batavia** — Java
7270	41.27		100	**Realtort** — France
7275	41.24	HI2T	7,5	**Trujillo** — Dominicana
7280	41.21	GWN	50	**London** — Gt. Britain
7280	41.21	VLC8	50	**Shepparton** — Australia
7280	41.21		100	**Allouis** — France
7280	41.21	HVI	25	**Vatican City** —
7280	41.21	VLT5	0,5	**Port Moresby** — N. Guinea
7280	41.21	VLA	100	**Shepparton** — Australia
7290	41.15	VUD2	10	**Delhi** — India
7290	41.15	VUD10	20	**Delhi** — India
7290	41.15	VUD5	100	**Delhi** — India..
7290	41.15		25	**Hamburg** — Germ. Br. Z.
7295	41.12	YDI3	0,25	**Soerabaia** — Java
7295	41.11	ZOY	1,3	**Accra** — Cold Coast
7299	41.10	CR6RC	1	**Luanda** — Angola
7300	41.10			**Moscow** — U. S. S. R.
7300	41.10		7	**Athens** — Greece
7320	49.98	GRJ	59	**London** — Gt. Britain
7330	40.93			**Moscow** — U. S. S. R.
7350	40.81	HC2AN	0,2	**Guayaquil** — Ecuador
7360	40.76	YNAO	0,2	**Managua** — Nicaragua
7380	40.65	HEU3	25	**Schwarzenburg** — Switz.
7380	40.65		0,5	**Madrid** — Spain
7385	40.83			**Sanaa** — Yemen
7400	40.54	YVKC	10	**Caracas** — Venezuela
7400	40.54	YNXA	0,1	**Masaya** — Nicaragua
7410	40.49	PST2	1	**Sao Paulo** — Brazil
7430	40.38			**Leningrad** — U. S. S. R.
7447	40.29	FG8HA	0,1	**Basse Terre** — Guadeloupe
7460	40.21	YNTZ	0,1	**Masaya** — Nicaragua
7490	40.00			**Tiflis** — U. S. S. R.
7500	40.00		0,5	**Damascus** — Syria
7500	40.00	YNFT	0,2	**Granada** — Nicaragua
7615	39.53		100	**Berlin Wolga** — Germany
7625	39.34	YNLAT	0,4	**Granada** — Nicaragua
7650	39.21	HLKB		**Pusan** — Korea
7660	39.17	YNDG	0,1	**Leon** — Nicaragua
7670	39.11		5	**Sofia** — Bulgaria
7700	38.96	CR6RM	0,1	**Mocamedes** — Angola
7785	39.00			**Moscow** — U. S. S. R.
7850	38.22		3,0	**Tirana** — Albania
7867	38.13	SUX	10	**Cairo** — Egypt
7874	38.10	HC1GP	0,25	**Quito** — Ecuador
7935	37.83	HLKA	5	**Seoul** — Korea
7940	37.78	FET	1,2	**Alicante** — Spain
7948	37.75	CQM7	1	**Bissau** — Port. Guinea
7950	37.74	FIA6	0.6	**Douala** — Fr. Cameroon
7960	37.69			**Shiras** — Iran
8000	37.50	KJOY		**Athen** — Greece
8007	37.46	YNMG	0,1	**Managua** — Nicaragua
8036	37.34		2,5	**Beyrouth** — Lebanon
8090	37.08	CR6RA	1	**Benguela** — Angola
8090	37.08	YCN3	0,25	**Pontianak** — Borneo
8100	37.04			**Jerusalem** — Israel
8216	36.50		3	**Shkodra** — Albania
8242	36.40	CR6RG	0,1	**Dondo** — Angola
8250	36.36	YNXW	0,1	**Managua** — Nicaragua
8400	35.71	HTX1	0,25	**Managua** — Nicaragua
8413	35.65	YDI	0,25	**Soerabaja** — Java
8440	34.97	YNCHA	0,1	**Managua** — Nicaragua
8666	34.62	COJK	1	**Havana** — Cuba
8700	34.48	COCO	5	**Havana** — Cuba
8820	34.00			**Khabarovsk** — U. S. S. R.
8825	33.92	COCQ	5	**Havana** — Cuba
8960	33.48	COKG	0,5	**Havana** — Cuba
9026	33.24	COBZ	1	**Havana** — Cuba
9045	33.16	HRA	0,75	**Tegucigalpa** — Honduras
9082	33.03	CNR3	2,5	**Rabat** — Fr. Marocco
9160	32.75	FIA6	0,6	**Douala** — Cameroon
9165	32.73	CR6RB	0,15	**Benguela** — Angola
9200	32.60	CE920	0,50	**Punto Arenas** — Chile
9210	32.57	OQ2RC	0,25	**Leopoldville** — Belg. C.
9225	32.54	H12G	0,1	**Trujillo** — Dominicana
9235	32.49	COBQ	1	**Havana** — Cuba
9235	32.49	CR6RH	0,1	**Sa da Bendeira** — Angola

kc/s	Metres		kW	Station
9250	32.43	YSF	1	**San Salvador** — Salvador
9250	32.43		4	**Bucarest** — Roumania
9273	32.33	COCX	1	**Havana** — Cuba
9310	32.22		5	**Sofia** — Bulgaria
9320	32.21	LRS	10	**B. Aires** — Argentina
9330	32.15		25	**Andorra** —
9330	32.15	OAX4J	0,25	**Lima** — Peru
9350	32.09		5	**Rodina** — Bulgaria
9368	32.02		40	**Madrid** — Spain
9375	32.00	OAX4W	0,5	**Lima** — Peru
		31 METRE BAND		
9380	31.98	COBC	1	**Havana** — Cuba
9380	31.98	OTM2	7,5	**Leopoldville** — B. Congo
9398	31.92			**Sofia** — Bulgaria
9410	31.88	GRI	50	**London** — Gt. Britain
9430	31.81	CP21	0,27	**Sucre** — Bolivia
9437	31.80,	COCH	5	**Havana** — Cuba
9440	31.78	FZ1	7	**Brazzaville** — Fr. Eq. Afr.
9460	31.72	CP1	0,25	**La Paz** — Bolivia
9465	31.70	TAP	20	**Ankara** — Turkey
9500	31.58	OIX2	15	**Lahti** — Finland
9500	31.58	KZPI	0,25	**Manila** — Philippines
9500	31.58	XEWW	10	**Mexico City** — Mexico
9500	31.58	OAX6H	0,1	**Lima** — Peru
9500	31.58	OAX6D	0,3	**Lima** — Peru
9505	31.56	CP38	5	**La Paz** — Bolivia
9505	31.56	OLR3B	30	**Podebrady** — Czechosl.
9505	31.56	YUC/D	10	**Beograd** — Yugoslavia
9505	31.56	HOLA	1	**Colon** — Rep. Panama
9510	33.55	GSB	50	**London** — Gt. Britain
9515	31.53		100	**Allouis** — France
9520	31.51	VLW7	2	**Perth** — Australia
9520	31.51	OZF	50	**Copenhagen** — Denmark
9520	31.51		100	**Allouis** — France
9520	31.51		1	**Colombo** — Ceylon
9520	31.51	VLT7	0,5	**Port Moresby**—N. Guinea
9520	31.51	CBFR	7,5	**Montreal** — Canada
9520	31.51	CP6	1	**La Paz** — Bolivia
9523	31.51		5	**Johannesburg III**—S.Afr.
9525	31.49	ZBW3	2,5	**Hongkong** — China
9525	31.50	GWJ	59	**London** — Gt. Britain
9525	31.50	HI2L	0,5	**Ciudad Trujillo** — Domin.
9525	31.50	WGEO	50	**Schenectady** — U. S. A.
9530	31.48	VUC2	10	**Calcutta** — India
9530	31.48	KGEI	50	**Belmont** — U. S. A.
9530	31.48	ZDI4	3	**Bathurst** — Gambia
9535	31.46	SBU	12	**Motala** — Sweden
9535	31.46	HER4	100	**Sschwarzenburg** — Switz.
9540	31.44	YSLL-A	1	**San Salvador** — Salvador
9540	31.45	VE9AJ	0,25	**Edmonton** — Canada
9540	31.45		85	**Munich II** — Germany
9540	31.44		7,5	**Rangoon** — Burma
9540	31.45			**Moscow** — U. S. S. R.
9540	31.45	VLB	100	**Shepparton** — Australia
9540	31.45	VLR	2	**Melbourne** — Australia
9540	31.45	VLG2	10	**Lyndhurst** — Australia
9540	31.45	VLC5	50	**Shepparton** — Australia
9540	31.45		100	**Allouis** — France
9540	31.45	ZL2	10	**Wellington** — N. Zealand
9540	31.45	LKJ	10	**Tromsø** — Norway
9545	31.43	XEFT	0,25	**Vera Cruz** — Mexico
9545	31.44	LRY	5	**Belgrano** — Argentina
9550	31.41	OLR3A	30	**Podebrady** — Czechosl.
9550	31.41	GWB	59	**London** — Gt. Britain
9550	31.41		100	**Allouis** — France
9550	31.41	VUB2	10	**Bombay** — India
9550	31.41	YDC	3,5	**Makassar** — Celebes
9550	31.41	HVJ	25	**Vatican City** —
9552	31.41	XOPB	0,4	**Chekiang** — China
9555	31.40	XETT	0,5	**Mexico City** — Mexico
9560	31.38	JVW4	5	**Kawachi** — Japan
9560	31.38	TPB12	100	**Les Essarts** — France
9562	31.37	OAX4T	10	**Lima** — Peru
9563	31.37		0,2	**Vienna** — Austria US. Z.
9565	31.36	ZYK3	15	**Recife** — Brazil
9570	31.35		100	**Allouis** — France
9570	31.35	KWID	100	**San Francisco** — U. S. A.
9570	31.35	WRUW	50	**Boston** — U. S. A.
9570	31.34		2,5	**Algiers II** — Algeria
9580	31.32	VLG	10	**Melbourne** — Australia
9580	31.32	VLH3	10	**Lyndhurst** — Australia
9580	31.32	GSC	59	**London** — Gt. Britain
9585	31.30		100	**Allouis** — France
9585	31.30	CE960	1,2	**Santiago de Chile** — Chile
9585	31.30	OAX4K	0,2	**Lima** — Peru
9590	31.28	CP35	0,5	**La Paz** — Bolicia
9590	31.30	VUD5	100	**Delhi** — India
9590	31.30	VUM2	10	**Madras** — India
9590	31.28	PCJ	40	**Huizen** — Holland
9595	31.27		1,5	**Athlone** — Eire
9600	31.25	XEYU	0,25	**Mexico City** — Mexico
9600	31.25	GRY	59	**London** — Gt. Britain
9605	31.24	JKE	5	**Yamata** — Japan
9607	31.23	HP5J	0,5	**Panama City** — Panama
9607	31.23		7,5	**Athens** — Greece
9610	31.20		5	**Cape-Town** — S. Africa
9610	31.22	VLW5	2	**Perth** — Australia
9610	31.22	LLG	10	**Frederiksstad** — Norway
9610	31.22	CHLS	50	**Sackville** — Canada
9610	31.22	XERQ	0,5	**Mexico City** — Mexico
9610	31.22	ZYC8	25	**Rio de Janeiro** — Brazil
9610	31.22	CBFX	7,5	**Montreal** — Canada
9615	31.20	KZFM	0,4	**Manila** — Philippines
9615	31.20	VLB9	100	**Shepparton** — Australia
9615	31.20	VLA2	100	**Shepparton** — Australia
9615	31.20	VLC6	50	**Shepparton** — Australia
9615	31.20	TIPG	3	**San José** — Costa Rica
9620	31.19		1	**Addis Ababa** — Ethiopia
9620	31.19		25	**Realtort** — France
9620	31.19	CXA6	20	**Montevideo** — Uruguay
9620	31.19	VUD3	5	**Delhi** — India
9625	31.17	GWO	59	**London** — Gt. Britain
9625	31.17	XEBT	10	**Mexico City** — Mexico
9625	31.17	VP4RD	0,5	**Port of Spain** — Trinidad
9630	31.15	CP12	0,25	**Sucre** — Bolivia
9630	31.15	VUD10	20	**Delhi** — India
9630	31.15	VUD2	10	**Delhi** — India
9630	31.15	CKLO	50	**Sackville** — Canada
9630	31.15		50	**Busto Arsizio I** — Italy
9630	31.15	CBFO	7,5	**Montreal** — Canada
9640	31.12	CHMD	50	**Sackville** — Canada
9640	31.12	COX	5	**Havana** — Cuba
9640	31.12	GVZ	50	**London** — Gt. Britain
9640	31.12	CXA8	3	**Montevideo** — Uruguay
9640	31.12	YVKC	50	**Caracas** — Venezuela
9640	31.12	KZRH	1	**Manila** — Philippines
9650	31.09		0,45	**Khartoum** — Sudan
9650	31.09	KNBA	50	**Dixon** — U. S. A.
9650	31.09			**Moscow** — U. S. S. R.
9650	31.09	ZIM8	7,5	**Sharq al Adna** — Cyprus
9653	31.08	CR7BI	10	**Laurenzo Marques** — Moz.
9655	31.07	HED6	50	**Schwarzenburg** — Switz.
9655	31.07	JKF	5	**Nazaki** — Japan
9658	31.06	XGOY	35	**Chungking** — China
9660	31.06	LRX	7	**Buenos Aires** — Arg.
9660	31.06	VLQ3	10	**Brisbane** — Australia
9660	31.06	GWP	50	**London** — Gt. Britain
9660	31.06	VUD11	20	**Delhi** — India
9660	31.06	HHBM	1	**Port-au-Prince** — Haiti
9660	31.06	HVJ4	25	**Vatican City** —

kc/s	Metres		kW	Station
9664	31.04		0,2	**Vienna III** — Austria
9670	31.02	WNRX	50	**Bound Brok** — U. S. A.
96 0	31.02	VUD3	5	**Delhi** — India
9670	31.02	OLR3C	34	**Podebrady** — Czechosl.
9675	31.01	GWT	50	**London** — Gt. Britain
9675	31 01		25	**Realtort** — France
9680	30.99	VLA3	100	**Shepparton** — Australia
9680	30 99	VLB2	100	**Shepparton** — Australia
9680	30.99	VLG8	10	**Lyndhurst** — Australia
9680	30.99	VLC2	50	**Shepparton** — Australia
9680	30.99	XEQQ	1	**Mexico City** — Mexico
9680	30.99	EQC	7	**Teheran** — Iran
9685	30.98		100	**Allouis** — France
9690	30.96	LRA1	10	**Buenos Aires** — Arg.
9690	30.96	HJCAB	1	**Bogota** — Colombia
9690	30.96	GRX	50	**London** — Gt. Britain
9690	30 96	KZOK	0.25	**Manila** — Philippines
9690	30.98		7,5	**Singapore** — Malaya
9692	30.95	TIRNH	0.75	**Heredia** — Costa Rica
9693	30.96	FIQA	0,3	**Tananarive** —Madagasc.
9695	30.95	JKG	5	**Kawachi** — Japan
9700	30.93	CP25	0,25	**La Paz** — Bolivia
9700	30 93	WLWS	75	**Cincinnati** — U. S. A.
9700	30.93	FNRI	1,5	**Fort-de-France** — Mart.
9700	30 93	KCBF	50	**Sao Francisco** — U. S. A.
9.05	30.91	ZOP	1,5	**Lusaka** — N. Rhodesia
9715	30.88	CR7BE	7,5	**Lourenzo Marques** — Moz.
9720	30.86	PRL7	50	**Rio de Janeiro** — Brazil
9720	30.86	CS2MF	10	**Barcarene** — Portugal
9727	30.84	H12T	0,5	**Trujillo** — Dominicana
9728	30.84	CE970	5	**Valparaiso** — Chile
9730	30.83	XGOA	4	**Nanking** — China
9730	30.83		12	**Leipzig** — Germany
9735	30.82	ZPA4	1	**Acunsion** — Paraguay
9750	30.77	KNBI	50	**Delano** — U. S. A.
9750	30.77		75	**Cincinnati** — U. S.A.
9750	30.77	XNRA	1	**Lanchow** — China
9760	30.74	TGWA	10	**Guatemala City** — Guatem.
9760	30.73			**Moscow** — U. S. S. R.
9767	30.71	OTC2	50	**Leopoldville** — Belg. C.
9770	3070	PRL4	1	**Rio de Janeiro** — Brazil
9800	30.61			**Moscow** — U. S. S. R.
9800	30.60		0,4	**Menado** — Celebes
9815	30.51	OAX-5C	0,15	**Ica** — Peru
9825	30.53	GRH	50	**London** — Gt. Britain
9833	30.51	COBL	1	**Havana** — Cuba
9870	30.40		1	**Johannesburg IV** — S. Afr.
9870	30.40	HC4NL	0,2	**Quito** — Ecuador
9890	30.33	HJAP	0,75	**Bogota** — Columbia
9915	30.26	GRU	50	**London** — Gt. Britain
9958	30.12	HCJB	1	**Quito** — Ecuador
9964	30.72	FZ1	1,5	**Brazzaville** — Fr. Eq. Af.
10000	30.00	XUPA	0,3	**Fukien** — China
10055	29.83	SUX	10	**Cairo** — Egypt
10060	29.82	PMB4	1	**Bandoeng** — Java
10080	29.76	YVKC	50	**Caracas** — Venezuela
10130	29.60	HH3W	0,5	**Port-au-Prince** — Haiti
10260	29.25	XRRA	2	**Peiping** — China
10365	28.94	PLB4	3	**Batavia** — Java
10600	28.30	ZIK2	0,2	**Belize** — Br. Honduras
10615	28.26	FJQA	0,25	**Tananarive** — Madagasc.
10780	27.83	SDB2	12	**Motala** — Sweden
11027	27.21	CS2MK	10	**Barcarene** — Spain
11030	27.20	YDH2	0,45	**Semarang** — Java
11035	27.18	CR6RA	0,4	**Luanda** — Angola
11084	27.06		0,35	**Makassar** — Celebes
		25 METRE BAND		
11500	26.09	XLRA	1	**Hankow** — China
11650	25.74	XTPA	1	**Canton** — China
11680	25.68	GRG	50	**London** — Gt. Britain
11680	2568	HJCT	1	**Bogota** — Columbia
11685	25.67		25	**Vatican City** — Italy
11690	25.66	XORA	5	**Shanghai** — China
11700	25.64	HP5A	2	**Panama City** — Panama
11700	25.64	GVW	50	**London** — Gt. Britain
11700	25.64		100	**Allouis** — France
11700	25.64	CE1170	5	**Valparaiso** — Chile
11705	25.63	CBFY	7,5	**Montreal** — Canada
11705	25.63	CKXA	50	**Sackville** — Canada
11705	25.63	SBP	12	**Motala** — Sweden
11710	25.62	VLG3	10	**Lyndhurst** — Australia
11710	25.62		5	**Johannesburg III** — S. Afr.
11710	25.62			**Moscow** — U. S. S. R.
11710	25.62	WLWR	75	**Cincinnati** — U. S. A.
11712	25.61	FHE3	12	**Dakar** — Senegal
11715	25.61	HEI5	25	**Schwarzenburg** —Switz.
11720	26.60	ZJM7	7,5	**Sharq al Adua** — Cyprus
11720	25.60	CPFL	7,5	**Montreal** — Canada
11720	25.60	OTM4	7,5	**Leopoldville** — B. Congo
11720	25.60	PRL8	50	**Rio de Janeiro** — Brazil
11720	25.60	CHOL	50	**Sackville** — Canada
11720	25.60		100	**Allouis** — France
11730	25.58	OQ2AA	0,25	**Leopoldville** — Belg. C.
11730	25.58	GVV	50	**London** — Gt. Britain
11730	25.57	PHI	5	**Huizen** — Holland
11730	25.58		100	**Allouis** — France
11730	25.58	KGEX	50	**Belmont** — U. S. A.
11730	25.58	WRUW	50	**Boston** — U. S. A.
11730	25.58	CR6RC	0,15	**Luanda** — Angola
11730	25.58	CE1173	5	**Santiago de Chile** — Chile
11730	25.58		7,5	**Singapore** — Malaya
11735	25.56	LKQ	100	**Frederiksstad** — Norway
11740	25.55	WRUX	50	**Boston** — U. S. A.
11740	25.55		1.5	**Athlone** — Eire
11740	25.55	VLB10	100	**Shepparton** — Australia
11740	25.55	HVJ	25	**Vatican City** —
11740	25.55	COCY	5	**Havana** — Cuba
11740	25.55	CE1174	5	**Santiago** — Chile
11750	25.53	GSD	50	**London** — Gt. Britain
11760	25.51	VLB3	100	**Shepparton** — Australia
11760	25.51	VLG10	10	**Lyndhurst** — Australia
11760	25.51	OLR4B	30	**Podebrady** — Czechosl.
11760	25.51	VLC3	50	**Shepparton** — Australia
11760	25.51	VUD11	20	**Delhi** — India
11760	25.51	VLA8	100	**Shepparton** — Australia
11760	25.51	CKRA	50	**Sackville** — Canada
11760	25.51	CBFA	7,5	**Montreal** — Canada
11765	25.50	HC2VP	0,2	**Guayaquil,** — Ecuador
11765	25.50	ZYB8	25	**Sao Paulo** — Brazil
11770	25.49	VLA4	100	**Shepparton** — Australia
11770	25.49	GVU	50	**London** — Gt. Britain
11770	25.49	KNBI	50	**Dixon** — U. S. A.
11770	25.49	WNRA	50	**Schenectady** — U. S. A.
11770	25.49	YDE	3	**Batavia** — Java
11770	25.49	VLB3	100	**Shepparton** — Australia
11780	25.47		12	**Saigon** — Fr. Indo China
11780	25.47	ZL3	10	**Wellington** — N. Zealand
11780	25.47	HP5G	0.8	**Panama City** — Panama
11785	25.45		0,2	**Vienna IV** — Austria
11790	25.45	WRUL	50	**Boston** — U. S. A.
11790	25.45	KNBX	50	**Dixon** — U. S. A.
11790	25.45	WRUS	50	**Boston** — U. S. A.
11790	25.45	WLWO	75	**Cincinnati** — U. S. A.
11800	25.42	GWH	50	**London** — Gt. Britain
11805	25.41	HC2FW	1	**Guayaquil** — Ecuador
11810	25.40		50	**Busto Arsizio II** — Italy
11810	25.40	VLB4	100	**Shepparton** — Australia
11810	25.40	WGEA	75	**Schenectady** — U. S. A.
11810	25.40	VLC7	50	**Shepparton** — Australia
11815	25.39	HEU5	25	**Schwarzenburg** — Switz.

kc/s	Metres		kW	Station
11820	25.38	GSN	50	**London** — Gt. Britain
11820	25.38	XEBR	0,15	**Hermosillo** — Mexico
11830	25.36	VLW3	2	**Perth** — Australia
11830	25.36	WCRC	50	**Wayne** — U. S. A.
11830	25.36	WCBN	50	**Wayne** — U. S. A.
11830	25.36	WCDA	50	**Brentwood** — U. S. A.
11835	25.36	XGOA	7,5	**Nanking** — China
11835	25.35		10	**Algier** — Algeria
11835	25 35	CXA19	5	**Montevideo** — Uruguay
11840	25.35	VLG4	10	**Lyndhurst** — Apstralia
11840	25.35	VLC7	50	**Shepparton** — Australia
11840	25.34	OLR4A	30	**Podebrady** — Czechosl.
11840	25.34	KZFM	5	**Manila** — Philippines
11840	25.34	GWQ	50	**London** — Gt. Britain
11845	25.33		25	**Muret** — France
11850	25.32		1	**Benghasi** — Cyrenaica
11850	25.32	CE1185	5	**Santiago de Chile** — Chile
11850	25.32	HJCF	2,5	**Bogota** — Colombia
11850	25.32	LLK	10	**Frederiksstad** — Norway
11850	25.32	ZPA3	1,2	**Asuncion** — Paraguay
11850	25.32	VUD4	10	**Delhi** — India
11860	25.30	KWIX	50	**San Francisco** — U. S. A.
11860	25.30	GSE	50	**London** — Gt. Britain
11865	25.28	HER5	100	**Schwarzenburg** — Switz.
11870	25.27	WOOW	75	**Wayne** — U. S. A.
11870	25.27	VUD9	7,5	**Delhi** — India
11870	25.27	VLC3	50	**Shepparton** — Australia
11870	25.27		100	**Allouis** — France
11870	25.27		85	**Munich I** — Germany
11875	25.26	OLR4C	30	**Podebrady** — Czechosl.
11880	25.25	LRT	10	**Còrdoba** — Argentina
11880	25.25	VLG5	10	**Lyndhurst** — Australia
11880	25.25	VLH4	10	**Lyndhurst** — Australia
11880	25.25	XEHH	0,25	**Mexico City** — Mexico
11885	25.24		25	**Muret** — France
11890	25.23		50	**Manila** — Philippines
11900	25.21	HI-2T	7,5	**Trujillo** — Dominicana
11900	25.21	CXA10	20	**Montevideo** — Uruguay
11900	25.21	VLG9	10	**Lyndhurst** — Australia
11900	25.21	CKEX	50	**Sackville** — Canada
11900	25.21			**U. S. S. R.**
11900	25.21	CE1190	5	**Valparaiso** — Chile
11900	25.21	OLR4B	30	**Podebrady** — Czechosl.
11900	25.21		0,075	**Bucarest** — Rumania
11900	25.21	KWID	50	**San Francisco** — U. S. A.
11900	25.21	OQ2AB	0,15	**Elisabethville** — Belg. C.
11913	25.21	XGOY	35	**Chungking** — China
11930	25.15	GVX	50	**London** — Gt. Britain
11945	25.12	ZPA5	2,5	**Encarnacion** — Paraguay
11950	25.10			**U. S. S. R.**
11955	25.09	GVY	50	**London** — Gt. Britain
11960	25.08			**U. S. S. R.**
11960	25.08			**Tabriz** — Iran
11970	25.06	FZI	50	**Brazzaville** — Fr. Eq. Af.
11998	25.00	CB1180	5	**Santiago** — Chile
12000	25.00		0,5	**Damascus** — Syria
12020	24.96			**U. S. S. R.**
12040	24.92	GRV	50	**London** — Gt. Britain
12095	24.80	GRF	50	**London** — Gt. Britain
12120	24.75	XKPB	0,4	**Shansi** — China
12126	24.74	FIQA	5	**Tananarive** — Madagasc.
12175	24.62	TFJ	7	**Reykjavik** — Iceland
12220	24.55	XMPA	1	**Nanking** — China
12270	24.45	CE1227	5	**Punto Arenas** — Chile
12455	24.09	HCJB	10	**Quito** — Ecuador
12749	23.52	CS2MP	0,5	**Barcarene** — Portugal
12865	23.32	CS2WI	10	**Parede** — Portugal
13320	22.52		0,25	**Khartoum** — Sudan
13330	22.50	XLDA		**Chungking** — China
13360	22.45		0,2	**Ambon** — Moluceas
14280	21.01		1	**Tangier** — Tangier

kc/s	Metres		kW	Station
				19 METRE BAND
14700	20.41	ZCC		**Tel Aviv** — Palestine
15070	19.91	GWC	50	**London** — Gt. Britain
15090	19.88	CKLX	50	**Sackville** — Canada
15090	19.88	CBLX	7,5	**Montreal** — Canada
15095	19.87	HVJ	25	**Vatican City** —
15100	19.87		100	**Allouis** — France
15100	19.87	CS2MQ	10	**Barcarene** — Spain
15100	19.87	EPB	14	**Teheran** — Iran
15110	19.85	GWG	50	**London** — Gt. Britain
15115	19.85	HCJB	0,4	**Quito** — Ecuador
15120	19.84		100	**Colombo** — Ceylon
15120	19.84		1,5	**Athlone** — Eire
15120	19.84	HVJ2	25	**Vatican City** —Italy
15120	19.84		50	**Busto Arsizio II** — Italy
15120	19.84	HED7	25	**Schwarzenburg** — Switz.
15130	19.83	CP7	1	**La Paz** — Bolivia
15130	19.83	WOOC	75	**Wayne** — U. S. A.
15130	19.83	KNBI	50	**Dixon** — U. S. A.
15130	19.83	KCBR	100	**San Francisco** — U. S. A.
15130	19.83		100	**Allouis** — France
15130	19.83			**U. S. S. R.**
15140	19.82	GSF	50	**London** — Gt. Britain
15145	19.82	YDC	3	**Batavia** — Java
15145	19.82	ZYK3	15	**Recife** — Brazil
15150	19.80	KCBA	50	**San Francisco** — U. S. A.
15150	19.80	OAX4R	10	**Lima** — Peru
15150	19.80	WRCA	50	**Bound Brook** — U. S. A.
15150	19.80	ZYB9	25	**Sao Paulo** — Brazil
15150	19.80	SBT	12	**Motala** — Sverige
15160	19.79	VLG7	10	**Lyndhurst** — Australia
15160	19.79	VLB11	100	**Shepparton** — Australia
15160	19.79	OLR5C	30	**Podebrady** — Czechosl.
15160	19.79	VUD7	100	**Delhi** — India
15165	19.77	ZYN7	5	**Fortaleza** — Brazil
15165	19.77	OZH2	50	**Copenhagen** — Denmark
15170	19.78	TGWA	10	**Guatemala City** —
15170	19.77	OQ2AA	0,25	**Leopoldville** — Belg. C.
15170	19.78	XGOY	35	**Chungking** — China
15170	19.78			**U. S. S. R.**
15170	19.78	LKV	10	**Tromsø** — Norway
15180	19.76	GSO	50	**London** — Gt. Britain
15190	19.75	PRK9	12	**Belo Horizonte** — Brazil
15190	19.75	CKCX	50	**Sackville** — Canada
15190	19.75	CBFZ	7,5	**Montreal** — Canada
15190	19.75	OIX4	15	**Pori** — Finland
15190	19.74	VUD5	100	**Delhi** — India
15195	19.74	TAQ	20	**Ankara** — Turkey
15200	19.74	VLA6	100	**Shepparton** — Australia
15200	19.74	VLB6	100	**Shepparton** — Australia
15200	19.74	VLC	50	**Shepparton** — Australia
15200	19.74	VLG11	10	**Lyndhurst** — Aushalia
15210	19.72	VLG11	10	**Lyndhurst** — Aushalia
15210	19.72	KGEI	50	**Delano** — U. S. A.
15210	19.72	VLC11	50	**Shepparton** — Australia
15220	19.72	WRUA	50	**Boston** — U. S. A.
15220	19.71	WRUA	50	**Belmont** — U. S. A.
15220	19.72	PCJ	40	**Huizen** — Holland
15225	19.71	JVW	15	**Kawachi** — Japan
15230	19.70	OLR5A	30	**Podebrady** — Czechosl.
15230	19.70		75	**Cincinnati** — U. S. A.
15230	19.70			**U. S. S. R.**
15230	19.70	VLG6	10	**Lyndhurst** — Australia
15235	19.69	JVW3	3	**Kawachi** — Japan
15240	19.69	VLG6	10	**Lyndhurst** — Australia
15240	19.69	VLR4	2	**Melbourne** — Australia
15240	19.68		100	**Allouis** — France
15250	19.67	WLWR	75	**Cincinnati** — U. S. A.
15250	19.67	KRHO	100	**Honolulu** — Hawaii
15250	19.67	XGRY	20	**Nanking** — China
15250	19.67	KNBX	50	**Dixon** — U. S. A.

kc/s	Metres		kW	Station
15260	19.66	GSI	50	**London** — Gt. Britain
15270	19.65	WCBN	50	**Brentwood** — U. S. A.
15270	19.65	WCRC	50	**Wayne** — U. S. A.
15280	19.63	ZL4	10	**Wellington** — N. Zealand
15280	19.63	WNRE	50	**Bound Brook** — U. S. A.
15290	19.62	LRU	5	**Buenos Aires** — Arg.
15290	19.62	VUD11	20	**Delhi** — India
15290	19.62	WRUL	50	**Boston** — U. S. A.
15290	19.62		25	**Realtort** — France
15290	19.62	VUD3	5	**Delhi** — India
15290	19.62	WRUA	50	**Boston** — U. S. A.
15300	19.61		7,5	**Singapore** — Malaya
15300	19.60	CXA18	20	**Montevideo** — Uruguay
15300	19.61	GWR	50	**London** — Gt. Britain
15305	19.60	HER6	25	**Schwarzenburg** — Switz.
15310	19.60	GSP	50	**London** — Gt. Britain
15310	19.60			**U. S. S. R.**
15320	19.58	CKCS	50	**Sacksville** — Canada
15320	19.58			**U. S. S. R.**
15320	19.58	VLB11	100	**Shepparton** — Australia
15320	19.59	VLC4	50	**Shepparton** — Australia
15320	19.59	VLA5	100	**Shepparton** — Australia
15320	19.58	OLR5B	30	**Podebrady** — Czechosl.
15325	19.58	OQ2RC	0,25	**Leopoldville** — Belg. C.
15330	19.57	WLWR	175	**Cincinnati** — U. S. A.
15330	19.57		50	**Manila** — Philippines
15330	19.57	WGEO	100	**Schenectady** — U. S. A.
15340	19.56			**U. S. S. R.**
15345	19.55		7	**Athens** — Greece
15350	19.54	VUD9	7,5	**Delhi** — India
15350	19.54		25	**Realtort** — France
15350	19.54	WRUL	50	**Boston** — U. S. A.
15350	19.54	WLWR	75	**Cincinnati** — U. S. A.
15350	19.54		5	**Luxembourg**
15370	19.52	ZYC9	25	**Rio de Janeiro** — Brazil
15392	19.49	FHE2	12	**Dakar** — Senegal
15400	19.48	PZC	5	**Paramaribo** — Surinam
15407	19.47			**U. S. S. R.**
15435	19.44	GWE	50	**London** — Gt. Britain
15440	19.43			**U. S. S. R.**
15450	19.42	GRD	50	**London** — Gt. Britain
15595	19.23	FZ1	50	**Brazzaville** — Fr. Eq. Af.
15915	18.85	CR6RL	1	**Luanda** — Angola
		16 METRE BAND		
16666	18.01	CNR3	2,5	**Rabat** — Fr. Marocco
17450	17.19	HVJ	25	**Vatican City** —
17630	17.02	PLD6	3	**Batavia** — Java
17700	16.95	GVP	50	**London** — Gt. Britain
17715	16.93	GRA	50	**London** — Gt. Britain
17720	16.93	LRA5	5	**Buenos Aires** — Arg.
17730	16.92	ZOJ	7,5	**Colombo** — Ceylon
17730	16.92	GWQ	50	**London** — Gt. Britain
17755	16.90	WRUW	50	**Boston** — U. S. A.
17760	16.89	KWID	50	**San Francisco** — U. S. A.
17760	16.89	VUD3	5	**Delhi** — India
17760	16.89	VUD8	7,5	**Delhi** — India
17765	16.89		25	**Muret** — France
17765	16.89	XGRZ		**Nanking** — China
17768	16.88			**Moscow** — U. S. S. R.
17768	16.88	OTC5	50	**Leopoldville** — B. Congo
17770	16.88	PHI	5	**Huizen** — Holland
17770	16.88	ZL5	10	**Wellington** — New Zeal.
17770	16.88	ZOJ	7,5	**Colombo** — Ceylon
17780	16.87		25	**Muret** — France
17780	16.87	WNBI	50	**Bound Brook** — U. S. A.
17784	16.87	HER7	25	**Schwarzenburg** —
17790	16.86	GSG	50	**London** — Gt. Britain
17800	16.85	KRHO	100	**Honolulu** — Hawai
17800	16.85	XGOY	5	**Chungking** — China
17800	16.85	WLWK	75	**Cincimati** — U. S. A.
17800	16.85	WLWS	75	**Cincinnati** — U. S. A.
17800	16.85	VLA7	100	**Shepparton** — Australia
17800	16.85	VLB7	100	**Shepparton** — Australia
17800	16.85	OIX5	15	**Helsinki III** — Finland
17810	16.84	GSV	50	**London** — Gt. Britain
17810	16.84		100	**Allouis** — France
17820	16.84	CKNC	50	**Sackville** — Canada
17830	16.83	OLR6A	30	**Podebrady** — Czechosl.
17830	16.83	WCBX	50	**Brentwood** — U. S. A.
17830	16.83	VUD10	20	**Delhi** — India
17838	19.83			**Kiev** — U. S. S. R.
17840	16.82	VLC9	50	**Shepparton** — Australia
17840	16.82	VLA10	100	**Shepparton** — Australia
17840	16.82		1,5	**Athlone** — Eire
17840	16.83	HVJ	25	**Vatican City** — Italy
17840	16.82	FZ1	7	**Brazzaville** — Fr. Eq. Af.
17845	16.85		5	**Ruyselede** — Belgium
17850	16.81	KCBF	50	**San Francisco** — U. S. A.
17850	16.81	PRL9	50	**Rio de Janeiro** — Brazil
17850	16.81		100	**Muret** — France
17860	16.80			**Moscow** — U. S. S. R.
17880	16.78	WGEX	50	**Schenectady** — U. S. A.
17880	16.78	KGEX	100	**Dixon** — U. S. A.
17890	16.77	HCJB	10	**Quito** — Ecuador
18025	16.64	GRQ	50	**London** — Gt. Britain
18080	16.59	GVO	50	**London** — Gt. Britain
18130	16.55	GRP	50	**London** — Gt. Britain
18450	16.26		50	**United Nations** — Switz.
18160	16.52	WNRI	50	**Bound Brook** — U. S. A.
18350	16.37	ZCB		**Tel Aviv** — Palestine
18393	16.31		12	**Saigon** — Fr. Indochina
18890	15.87	ZCA		**Tel Aviv** — Palestine
19345	15.51	PLF2	2,5	**Batavia** — Java
		13 METRE BAND		
21450	13.99	XGSW	20	**Nanking** — China
21450	13.99	ORL7A	30	**Podebrady** — Czechosl.
21450	13.98		5	**Ruyselede** — Belgium
21460	13.89	KNBA	100	**Dixon** — U. S. A.
21470	13.97	GSH	50	**London** — Gt. Britain
21480	13.96	PHI	15	**Huizen** — Hollanr
21490	13.96		100	**Allouis** — France
21500	13.95	WOOW	50	**Wayne** — U. S. A.
21510	13.95	VUD8	7,5	**Delhi** — India
21510	13.95	VUD10	20	**Delhi** — India
21530	13.93	GSJ	50	**London** — Gt. Britain
21540	13.93	VLB5	100	**Shepparton** — Australia
21565	13.91	OLR7B	30	**Podebrady** — Czechosl.
21570	13.91	WCRC	50	**Wayne** — U. S. A.
21590	13.90	WGEA	50	**Schenectady** — U. S. A.
21600	13.89	VLA9	100	**Shepparton** — Australia
21600	13.89	VLB8	100	**Shepparton** — Australia
21600	13.89	CKRP	50	**Sackville** — Canada
21610	13.88	WNRA	50	**Bound Brook** — U. S. A.
21640	13.86	GRZ	50	**London** — Gt. Britain
21640	13.86	OLR7C	30	**Podebrady** — Czechosl.
21650	13.86	WLWS	75	**Cincinnati** — U. S. A.
21675	13.84	GVR	50	**London** — Gt. Britain
21680	13.84	VLC10	50	**Shepparton** — Australia
21690	13.83	WLWL	75	**Cincinnati** — U. S. A.
21710	13.82	GVS	50	**London** — Gt. Britain
21730	13.81	WNRX	50	**Bound Brook** — U. S. A.
21740	13.80		100	**Allouis** — France
		11 METRE BAND		
21750	13.79	GVT	50	**London** — Gt. Britain
25600	11.72	WRUX	50	**Boston** — U. S. A.
25750	11.65	GSQ	50	**London** — Gt. Britain
25800	11.62	ZL6	7	**Wellington** — New Zeal.
26100	11.49	GSK	50	**London** — Gt. Britain
26400	11.36	GSR	50	**London** — Gt. Britain
26550	11.30	GSS	50	**London** — Gt. Britain

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Belgien: Richard W. Hansen, Det danske Selskab (La Societa Danoise), Pension d'Egmont, 15 rue aux Laines, Brussels.

Czechoslovakia: Carl Petersen, Det danske Selskab (Dánská Spolecmost), Nad Cementarnou, 331 Podoli, Praha.

Holland: Miss Tove Galatius, Det danske Selskab (Het Deense Institut), Jan Luykenstraat 6, Amsterdam.

Italy: Egon Drostby, Det danske Selskab (La Société Danese), via F. Paulucci de' Calboli 9, Roma.

Portugal: Radio Nacional, Programma Oficial Lisbon.

Sweden: Ake Bergström, Scandinavian DX-Club. K. G. Frick, Scandinavian DX-Club. Arne Skoog, DX-Editor, Swedish Broadcasting. — Harald Svahn, Scandinavian DX-Club. — Bo Svärd, Sveriges Radio Club.

Switzerland: Finn Riber Jensen, Det danske Selskab (Die dänische Gesellschaft), Kurfirstenstrasse 18, Zürich.

AFRICA:

Africa: H. M. Bluman, Asmara, Eritrea.

EAST AND FAR EAST:

Australia: Graham D. Hutchins, DX-Editor. Radio Australia.

China: Roy Dunlop, Director of English Programmes, The Voice of China, Chungking.

India: H. P. Sampat, Bombay.

New Zealand: Arthur T. Cushen, Invercargill. Des Gate, Auckland. — W. M. Gardiner, Christchurch. — A. W. Fordham, North Auckland. — J. J. Saunders, Wellington.

Philippines: Chief Engineer Gerino Pancito, Cebu.

AMERICA:

Uruguay: Senor Moreno, Servicio Oficial de Difusion, Radio Electrica, Montevideo.

U. S. A.: Vagn Rasmussen, Det danske Selskab (The Danish Society), 2057 North Keystone Ave, Chicago, Ill.

Charles M. Southall, Philadelphia (for WRUL).

Cooperating Clubs.

Grand National Radio Society, USA.
International Short-Wave Club, England.
International Friendship League, England.
National Radio Club, USA.
Nationwide Short-Wave League, USA
Short Wave News, England.
Scandinavian DX-Club, Sweden.
Sveriges Radioklub, Sweden.
Short Wave Listeners Registry, USA.
The World Friendship Society of Radio Amateurs, England.
Tri-State, Short-Wave Listeners Club, USA.
New Zealand DX-Club, Inc., New Zealand. Zealand.
New Zealand Radio DX-League, New Zealand.

ESPERANTO-PROGRAM

Ciutage (Every day)
15.30-15.45 Praha 25.51 m Informoj.
17.15-17.30 Paris 41.21 m.
21.00-21.15 Praha 31.41 m.
Lundo (Monday)
11.30-11.40 PRG 2 (Brazilo) 104 m.
17.30-17.40 Wien II 31.04 m, 41.80 m, 228.6 m.
21.50 22.00 Praha 470.2 m.
22.00-23.30 Praha II 269.5 m, 325.4 m nur la unuan lundon en la monato.
23.30-23.35 Budapest I 549.5 m.
Mardo (Tuesday)
18.05-18.10 Bern 25.61 m, 48.66 m Dr. Bauer.
18.50-19.00 Sofia 32.09 m.
20.45-21.00 Hradec Králové 238 m.
21.00-21.10 Ostrava 259 m.
Merkredo (Wednesday)
10.15-10.35 Paris 431.7 m.
21.10-21.25 Warszawa III 48.25 m.
23.30-23.35 Budapest I 549.5 m.
Jaudo (Thursday)
17.45-18.00 Hradec Králové 280 m.
17.55-18.00 Bern 25.61 m, 48.66 m Dr. Privat.
21.50 22.00 Praha 470.2 m.
21.00-21.10 Ostrava 259 m.
Vendredo (Friday)
18.50-19.00 Sofia 32.09 m.
23.30-23.35 Budapest I 549.5 m.
Sabato (Saturday)
12.00-12.15 München 405 m, 48.70 m.
12.00-12.15 Nürnberg 315.8 m.

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